Communications Update Meeting
January 27, 2015

- Not Responsive
- Flint Water
- Not Responsive

Upcoming Events:

Not Responsive

Interviews:

- Not Responsive

From: Agen, Jarrod (GOV)
Sent: Tuesday, February 03, 2015 2:07 PM
To: Wurfel, Sara (GOV)
Cc: Biehl, Laura (GOV); Rexford, Tori (GOV)
Subject: Re: Gov's Comms Update

Not Responsive

> On Feb 3, 2015, at 2:03 PM, "Wurfel, Sara (GOV)" <Wurfels@michigan.gov> wrote:
>

Not Responsive

> 2nd revised version attached and below.
>
> Communications Update
> 2/3/2015
>
> Issues:
> Flint Water
>

Not Responsive

Not Responsive

> -----Original Message-----
> From: Wurfel, Sara (GOV)
> Sent: Tuesday, February 03, 2015 1:53 PM
> To: Biehl, Laura (GOV); Agen, Jarrod (GOV); Rexford, Tori (GOV)
> Subject: RE: Gov's Comms Update
>

Not Responsive

>
> -----Original Message-----
> From: Biehl, Laura (GOV)
> Sent: Tuesday, February 03, 2015 1:09 PM
> To: Agen, Jarrod (GOV); Wurfel, Sara (GOV); Rexford, Tori (GOV)
> Subject: RE: Gov's Comms Update
>

Not Responsive

Not Responsive

From: Rexford on behalf of GovCalendar <=?iso-8859-1?Q?GovCalendar?=>
Sent: Wednesday, October 31, 2012 12:41 PM
To: Lasher, Geralyn (GOV); Wurfel, Sara (GOV); Silfven, Ken (GOV); Waun, Daniel (GOV)
Subject: RDS - Interview with Kristen Longley, Flint Journal - SWurfel will Call RDS Cell

Note: Sara Wurfel will call RDS cell and conference in Kristen

Interview with Kristen Longley, Flint Journal

Primary topics: ballot proposals, specifically Props 1 & 2; she also will ask the governor's thoughts on how his public safety initiative is unfolding, as well as his thoughts on the proposed regional water pipeline between Flint and Detroit. (Note: Comms will provide brief bullet points on this Wednesday morning)

810-429-5333

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 31, 2012 11:10 AM
To: Buhs, Caleb (Treasury); Stanton, Terry A. (Treasury)
Subject: FW: Genesee Co water supply project TODAY's FLINT JOURNAL

Importance: High

Per our quick conversation, Caleb. Any update you can provide ASAP from Treasury role and perspective will be great.

From: Wurfel, Brad (DEQ)
Sent: Wednesday, October 31, 2012 11:03 AM
To: Wurfel, Sara (GOV)
Subject: RE: Genesee Co water supply project TODAY's FLINT JOURNAL

Officials from Flint, Genesee County, Detroit to meet with state treasury on region's water future, officials say

By Kristin Longley | klongley1@mlive.com The Flint Journal
on October 31, 2012 at 7:16 AM, updated October 31, 2012 at 7:17 AM
Email | Print

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Flint water treatment plant *Ryan Garza | MLive.com file photo*

GENESEE COUNTY, MI -- In a meeting of all the major stakeholders, the city of Flint is expected to make its case to the state Thursday that joining a regional effort to build a new pipeline from Lake

Huron is the best option for Flint's future water.

The meeting is expected to include representatives from Flint emergency financial manager Ed Kurtz's administration as well as the Genesee County Drain Commissioner's Office, Detroit Water and Sewerage Department and thr Michigan Treasury department, Flint officials said this week.

"The state is looking to bring all the parties to one place to look at the numbers," said Howard Croft, Flint's director of infrastructure. "All the pros and cons and all the people involved will be in the room."

Flint and Genesee County have been getting water from Detroit under a 30-year contract that is now expired, and are looking to break away because of continuing price increases.

Officials with the Flint emergency manager's office have been exploring several options for water since the city was taken over by the state in December. The options included treated Flint River water as well as blending Detroit water with Flint River water.

Now, Flint authorities say joining with Genesee County officials on building a new pipeline from Lake Huron is the best bet in order to stabilize Flint water rates over the long term.

The pipeline would service a wider region that could also include Lapeer, Sanilac County and Lapeer County, called the Karegnondi Water Authority.

"We're comfortable with the work we've done. We believe the numbers bear out," Croft said. "This is taking it to the next level, taking it to the state and saying these are our options."

Kurtz said that, under the emergency financial manager law, the state treasurer has to sign off on any deal more than $50,000 -- which certainly applies to the pipeline project that's expected to cost the three-county region up to $300 million.

The Genesee County Board of Commissioners took steps last week to borrow up to $35 million to cover the initial construction costs for the pipeline.

Genesee County Drain Commissioner Jeff Wright said he was asked to attend the meeting Thursday in Lansing. He said his office will be glad to be there to answer any questions about the KWA proposal.

County officials claim that continuing to buy water from the city of Detroit will cost the region $2.1 billion during the next 25 years. By building a pipeline, that cost would no more than $1.9 billion over the same period.

"It's cheaper to build our own system than to continue to pay more and more to the city of Detroit," Wright said. "This is about the least expensive way for our people to get the best quality water."

Croft said the Flint River isn't the best option for Flint's primary source because of concerns about capacity during drought conditions and questions about what the city and county would rely on as their state-required backup source, which is currently the river.

If the city were to make the Flint River its primary source, major upgrades would have to be made to the dams and other infrastructure, Croft said.

Blending river water with Detroit water would still leave Flint vulnerable to future rate increases from Detroit, he said.

Going with the KWA pipeline, on the other hand, would mean a fixed water cost, Croft said.

"A lot of things are conditional (with blending)," Croft said. "That's not a good scenario for us. We're looking for a long-term solution not a short-term one."

Still, no decisions have been finalized, he said.

"The state has to support any decision of this magnitude," he said. "This is about us making the best-informed decision we can make

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-241-7395 - office
PPI - cell

From: Milne, James (DEQ)
Sent: Wednesday, October 31, 2012 10:11 AM
To: Wurfel, Brad (DEQ)
Cc: Fisher, Brant (DEQ); LeBaron, Andrew (DEQ)
Subject: Genesee Co water supply project

See if the attached files give you what you need. Brant Fisher & Andy LeBaron are probably the best people to talk to about this project.

Jim Milne, Great Lakes Shorelands Unit Chief
Water Resources Division
MI Dept. of Environmental Quality
ph: 517-373-4608 fax: 517-373-6917
e-mail: milnej@michigan.gov

This Document is a Non-Responsive Attachment.

From: Wurfel, Sara (GOV)
Sent: Friday, March 29, 2013 10:41 AM
To: Buhs, Caleb (GOV)
Subject: Fwd: status of flint's participation in kwa water pipeline

Caleb -

Can you please work on this and determine appropriate response ASAP?

Thanks!

Sent from my iPad

Begin forwarded message:

> **From:** "Fonger, Ronald" <RFONGER1@mlive.com>
> **Date:** March 29, 2013, 10:26:58 AM EDT
> **To:** "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>
> **Subject: FW: status of flint's participation in kwa water pipeline**
>
> Sara:
> Sorry to keep bugging you but I want you to know that flint's em just told us that the recommendation on flint becoming a part of the kwa has gone from the state treasurer to the governor.
> Please contact me so I can include comment from your office.
> Thanks for your help!
>
> Ron Fonger
> 810.347.9963
>
> ---
>
> **From:** Fonger, Ronald
> **Sent:** Friday, March 29, 2013 9:10 AM
> **To:** 'Wurfel, Sara (GOV)'
> **Subject:** FW: status of flint's participation in kwa water pipeline
>
> Hi Sara. Can you help me with this?
> I understand there was a meeting between some state, city and county officials Thursday.
> Thank-you

From: Wurfel, Sara (GOV)
Sent: Friday, March 29, 2013 10:52 AM
To: Fonger, Ronald
Subject: Re: status of flint's participation in kwa water pipeline

Sorry, Ron, have been in back-to-back meetings. Am trying to track info down so we can get back with you asap.

Thanks,
SW

Sent from my iPad

On Mar 29, 2013, at 10:27 AM, "Fonger, Ronald" <RFONGER1@mlive.com> wrote:

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From: Wurfel, Sara (GOV)
Sent: Friday, March 29, 2013 12:27 PM
To: Buhs, Caleb (GOV)
Subject: Fwd: status of flint's participation in kwa water pipeline

More info ...

Sent from my iPad

Begin forwarded message:

> **From:** "Fonger, Ronald" <RFONGER1@mlive.com>
> **Date:** March 29, 2013, 12:19:38 PM EDT
> **To:** "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>
> **Subject: FW: status of flint's participation in kwa water pipeline**
>
> Sara:
> Talked to Kurtz a second time.
> I may have misunderstood his comments about the status of the pipeline issue in lansing.
> He says he doesn't know if the rec. has gone from treasurer to the governor.
> However, he confirms his recommendation in yesterday's meeting was for flint to join kwa.
> My story will reflect that. It's the first time the emergency manager was endorsed the kwa, joining the mayor and city council.
> We are still interested in the governor's position on this and the status of the state treasurer's recommendation to governor (or will the state treasurer make the decision?)
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Thank-you

From: Wurfel, Sara (GOV)
Sent: Friday, March 29, 2013 12:51 PM
To: Buhs, Caleb (GOV)
Subject: RE: status of flint's participation in kwa water pipeline

Thanks!

From: Buhs, Caleb (GOV)
Sent: Friday, March 29, 2013 12:51 PM
To: Wurfel, Sara (GOV)
Subject: RE: status of flint's participation in kwa water pipeline

I spoke with Ron and he is all set. I went over the next steps with him, EM resolution and Treasurer approval, and confirmed a meeting with state officials for the purpose of fact finding.

From: Wurfel, Sara (GOV)
Sent: Friday, March 29, 2013 12:27 PM
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Subject: Fwd: status of flint's participation in kwa water pipeline

More info ...

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Hi Sara. Can you help me with this?
I understand there was a meeting between some state, city and county officials Thursday.
Thank-you

From: Wurfel, Sara (GOV)
Sent: Friday, March 29, 2013 1:16 PM
To: Holyfield, Jeff (GOV)
Cc: Smith, Jennifer (GOV)
Subject: FW: Flint Water System Update

Just an FYI. This could be a big issue but we're prepping for it. Will keep you posted.

From: Buhs, Caleb (GOV)
Sent: Friday, March 29, 2013 1:12 PM
To: Wurfel, Brad (DEQ); Stanton, Terry A. (Treasury)
Cc: Wurfel, Sara (GOV); Silfven, Ken (GOV); Weiss, Kurt (GOV)
Subject: Flint Water System Update

After speaking with Andy, Dan, Dennis and John, we have a plan for the next steps in Flint's request to participate in the KWA with Genesee County. Here is what we can confirm publicly, although unless it's a permitting question, we should have Treasury (Terry or I) answer any inquiries.

Ed Kurtz will submit a resolution to join the Karegnondi Water Authority (KWA) to the Treasurer, likely today. Once I receive word that we have officially received, we can confirm that we have it and the Treasurer will thoroughly review the resolution and perform due diligence before making a decision. Under PA 436, the State Treasurer must approve contracts over $50,000 that were not competitively bid.

No date has been set for the Treasurer to complete his review, but, he is fully aware of the tight timelines necessary to get approvals for the upcoming construction season, and will conduct his review accordingly.

That is all we can confirm publicly through next week. Just so you are aware, **and not for public consumption**, a call was placed to DWSD to let them know that Ed Kurtz was submitting his request and that if they have a final best offer that they should submit it very soon. This may prompt them to go to the media, or not, but be prepared if you get a call from that angle.

We need to develop some talking points for the following week, when Andy makes his determination. I will try to put together a draft by the end of the day and send it around for review. If anyone has anything they would like me to add, feel free to send it my way.

Let me know if you have any questions.

-Caleb

From: Wurfel, Sara (GOV)
Sent: Tuesday, April 02, 2013 10:53 AM
To: Roberts, John (GOV)
Subject: FW: Flint Water System Update

Anything new or different at this point? We're still working under assumption that Treasurer is not making a determination until end of this week or early next, provided that there's not a fantastic last, best offer that comes from DWSD, true?

From: Stanton, Terry A. (Treasury)
Sent: Tuesday, April 02, 2013 9:18 AM
To: Buhs, Caleb (GOV); Wurfel, Sara (GOV)
Cc: Wurfel, Brad (DEQ)
Subject: Fwd: Flint Water System Update

All,

Steve Carmody has asked for some information on this.

I will follow up with him based on the general info below. Any other "updates" at this point?

Thanks, Terry

Begin forwarded message:

> **From:** "Buhs, Caleb (GOV)" <BuhsC2@michigan.gov>
> **Date:** March 29, 2013, 1:12:05 PM EDT
> **To:** "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>, "Stanton, Terry A. (Treasury)" <StantonT@michigan.gov>
> **Cc:** "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>, "Silfven, Ken (GOV)" <silfvenk@michigan.gov>, "Weiss, Kurt (GOV)" <WeissK5@michigan.gov>
> **Subject: Flint Water System Update**
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Let me know if you have any questions.

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From: Wurfel, Sara (GOV)
Sent: Tuesday, April 02, 2013 10:57 AM
To: Stanton, Terry A. (Treasury); Buhs, Caleb (GOV)
Cc: Wurfel, Brad (DEQ)
Subject: RE: Flint Water System Update

Not that I'm aware of and believe this still stands. Double checking on this end just in case.

From: Stanton, Terry A. (Treasury)
Sent: Tuesday, April 02, 2013 9:18 AM
To: Buhs, Caleb (GOV); Wurfel, Sara (GOV)
Cc: Wurfel, Brad (DEQ)
Subject: Fwd: Flint Water System Update

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> **Cc:** "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>, "Silfven, Ken (GOV)" <silfvenk@michigan.gov>, "Weiss, Kurt (GOV)" <WeissK5@michigan.gov>
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From: Wurfel, Sara (GOV)
Sent: Tuesday, April 02, 2013 1:49 PM
To: Stanton, Terry A. (Treasury)
Subject: RE: Flint Water System Update

I'd say use below as guide – nothing new since Friday apparently.

BTW, are you OK if we list you as contact on Fitch release? Seems like we should have Treasury noted and most of calls will probably come here, but I know you're on vaca this week so wanted to be cognizant of that.

From: Stanton, Terry A. (Treasury)
Sent: Tuesday, April 02, 2013 1:18 PM
To: Wurfel, Sara (GOV)
Subject: RE: Flint Water System Update

Any word? Steve bugging for follow-up.

From: Wurfel, Sara (GOV)
Sent: Tuesday, April 02, 2013 10:56 AM
To: Stanton, Terry A. (Treasury); Buhs, Caleb (GOV)
Cc: Wurfel, Brad (DEQ)
Subject: RE: Flint Water System Update

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Let me know if you have any questions.

-Caleb

From: Wurfel, Sara (GOV)
Sent: Wednesday, April 03, 2013 12:52 PM
To: Stanton, Terry A. (Treasury); Buhs, Caleb (GOV)
Cc: Muchmore, Dennis (GOV); Roberts, John (GOV); Stibitz, Brom (Treasury); Weiss, Kurt (GOV); Silfven, Ken (GOV); Holyfield, Jeff (GOV); Wisniewski, Wendy (GOV)
Subject: Flint & DWSD water

Hi guys –

Just wanted to loop back and check in re: timing on this issue. Last understanding was that was under close review by state treasurer and that soonest decision would be made is end of this week, beginning of next.

As you're both out this week (☹), just want to make sure we have a mechanism in place to coordinate with us in Gov's comm office as soon as know timing and plan so we can be ready with messaging and any outreach that may be needed. Sounds like this will be contentious one way or the other regardless of the determination so just trying to make sure we're prepared as possible.

Please advise. Thanks!
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Thursday, April 04, 2013 9:48 AM
To: Weiss, Kurt (GOV); Silfven, Ken (GOV); Holyfield, Jeff (GOV)
Cc: Smith, Jennifer (GOV); Buhs, Caleb (GOV)
Subject: FW: Flint & DWSD water

Just making sure you're all in the loop on this as I'll be out next week. Need to make sure we have talking points and appropriate comm/outreach plan in place. Caleb was going to be taking the lead, in conjunction with Terry at Treasury. Though next week, Treasury may need to be lead.

From: Muchmore, Dennis (GOV)
Sent: Thursday, April 04, 2013 9:44 AM
To: Stanton, Terry A. (Treasury); Stibitz, Brom (Treasury); Wurfel, Sara (GOV)
Cc: Buhs, Caleb (GOV); Roberts, John (GOV)
Subject: RE: Flint & DWSD water

I told the Gov about this again today. Let's make sure we sit on this until Tuesday or so, and do you have a comms plan in place?

From: Stanton, Terry A. (Treasury)
Sent: Wednesday, April 03, 2013 3:24 PM
To: Stibitz, Brom (Treasury); Wurfel, Sara (GOV)
Cc: Buhs, Caleb (GOV); Muchmore, Dennis (GOV); Roberts, John (GOV)
Subject: RE: Flint & DWSD water

Caleb is working on TPs to follow the review/determination. We will be sure to coordinate, etc., to ensure we are prepared.

From: Stibitz, Brom (Treasury)
Sent: Wednesday, April 03, 2013 3:01 PM
To: Wurfel, Sara (GOV)
Cc: Stanton, Terry A. (Treasury); Buhs, Caleb (GOV); Muchmore, Dennis (GOV); Roberts, John (GOV)
Subject: Re: Flint & DWSD water

Assuming we don't get different direction, I suspect Andy would sign early next week. He is on vacation this week.

Sent from my iPad

On Apr 3, 2013, at 12:51 PM, "Wurfel, Sara (GOV)" <Wurfels@michigan.gov> wrote:

> Hi guys –
>
> Just wanted to loop back and check in re: timing on this issue. Last understanding was that was under close review by state treasurer and that soonest decision would be made is end of this week, beginning of next.
>
> As you're both out this week (☹), just want to make sure we have a mechanism in place to coordinate with us in Gov's comm office as soon as know timing and plan so we can be ready with messaging and

any outreach that may be needed. Sounds like this will be contentious one way or the other regardless of the determination so just trying to make sure we're prepared as possible.

Please advise. Thanks!
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Monday, April 08, 2013 1:15 AM
To: Buhs, Caleb (GOV); Weiss, Kurt (GOV); Silfven, Ken (GOV); Holyfield, Jeff (GOV)
Subject: RE: Flint Water TPs

Thanks, Caleb. (And welcome back!)

Agreed, though I think there's going to need to be couple of topline message points that get to Treasurer's review process very generally (ala Ron Fonger's piece that pointed out that one community is going to lose while another "wins" regardless of the outcome). Doesn't sound like Detroit may take lighlty if that ends up being outcome.

We also do need a comms/outreach plan to make sure we've got all components and notification bases covered.

From: Buhs, Caleb (GOV)
Sent: Friday, April 05, 2013 8:24 AM
To: Wurfel, Sara (GOV); Weiss, Kurt (GOV); Silfven, Ken (GOV); Holyfield, Jeff (GOV)
Subject: Fwd: Flint Water TPs

Here is an email I sent out last week and haven't received any feedback yet. I will touch base with everyone again on Monday to finalize a comm plan ahead of AD's approval of Ed Kurtz's resolution.

Begin forwarded message:

> **From:** "Buhs, Caleb (GOV)" <BuhsC2@michigan.gov>
> **Date:** March 29, 2013, 5:05:17 PM EDT
> **To:** "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>, "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>, "Stanton, Terry A. (Treasury)" <StantonT@michigan.gov>, "Stibitz, Brom (Treasury)" <StibitzB@michigan.gov>
> **Cc:** "Weiss, Kurt (GOV)" <WeissK5@michigan.gov>, "Silfven, Ken (GOV)" <silfvenk@michigan.gov>
> **Subject: Flint Water TPs**
>
> Here is the start of some topline messages for Flint … I don't think that we need to get too deep into the specifics on the deal, we can leave that to Ed and others to discuss. Please let me know of any suggestions and additions that you have. I plan to also put together some background information that we can have on hand when discussing the topic. As I mentioned before, it likely won't be until the week of Apr 8th that we discuss this publicly.
>
> - This is a decision made by the City of Flint and is a local decision that affects their local water supply.
> - Flint Emergency Manager Ed Kurtz has heavily involved the city's elected officials throughout the decision-making process and all agree that this is best for the citizens and businesses in Flint.
> - This will save Flint at least $100 million over the next 25 years, and possibly as much as $300 million.

- The Departments of Treasury and Environmental Quality have approved the financial and environmental soundness of KWA's plan.

- Flint accounts for only 2% of DWSD's capacity.

Thanks,
Caleb

From: Wurfel, Sara (GOV)
Sent: Thursday, April 11, 2013 12:12 AM
To: Buhs, Caleb (GOV); Weiss, Kurt (GOV)
Subject: Contact - Flint Journal & water
Attachments: Contact.vcf; ATT00001.txt

Hi there guys - had a voice mail from Dominick (sp) Adams at Flint Journal late this afternoon your time re: "when Governor was going to decide on Flint's water?" Have not talked with him. And haven't seen the news yet (though haven't had a chance to really keep on top of things) so assuming that's still pending. His contact info is attached. Thx!

From: Wurfel, Sara (GOV)
Sent: Friday, April 19, 2013 5:42 PM
To: Ron Fonger - Flint Journal; Dominic Adams - MLive/Flint Journal
Cc: Buhs, Caleb (GOV)
Subject: Flint & DWSD water

Ron and Dominic –

Just wanted to confirm that I received both of your messages and I believe Caleb Buhs has tried to reach and get back with you. I believe you and the Journal are all set. Just in case, he's cc'd here and his cell is PPI

So you know, our team has been on different assignments so thankfully both Kurt Weiss and Caleb Buhs have been on loan to our team to help cover in the interim. So Dominic – when you get calls from one of them, they are calling on my and the Governor's behalf.

Thanks much and best regards,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397 office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Friday, April 19, 2013 5:45 PM
To: Ron Fonger - MLive/Flint Journal
Subject: FW: Flint & DWSD water

From: Wurfel, Sara (GOV)
Sent: Friday, April 19, 2013 5:42 PM
To: Ron Fonger - Flint Journal; Dominic Adams - MLive/Flint Journal
Cc: Buhs, Caleb (GOV)
Subject: Flint & DWSD water

Ron and Dominic –

Just wanted to confirm that I received both of your messages and I believe Caleb Buhs has tried to reach and get back with you. I believe you and the Journal are all set. Just in case, he's cc'd here and his cell is PPI

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Thanks much and best regards,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Sunday, April 28, 2013 7:00 PM
To: Holyfield, Jeff (GOV); Silfven, Ken (GOV)
Subject: FW: Flint/DWSD
Attachments: Kevyn Orr - April 26, 2013.pdf

FYI

From: Stibitz, Brom (Treasury)
Sent: Friday, April 26, 2013 4:51 PM
To: Muchmore, Dennis (GOV); Roberts, John (GOV); Dillon, Andy (Treasury)
Cc: Buhs, Caleb (GOV); Wurfel, Sara (GOV); Stanton, Terry A. (Treasury)
Subject: Flint/DWSD

Ed Kurtz and Kevyn Orr spoke this afternoon. Ed indicated that Flint will not accept the last offer from DWSD. His formal letter is attached.

I spoke with both (separately) after the call. They both indicated that they had a good conversation, and that they sincerely look forward to working with the other in good faith over the next couple years.

Kevyn indicated that he would follow up with Sue McCormack, and that his direction will be that there be no more talking to the press about the issue. Ed plans to stay silent on the deal until Monday, at which time he will address the issue in a matter of fact matter, and stay away from any divisive language regarding the issue.

Brom Stibitz
Senior Policy Advisor
Michigan Department of Treasury
517-373-3223
stibitzb@michigan.gov

CITY OF FLINT
OFFICE OF EMERGENCY MANAGER
EDWARD J. KURTZ

ELECTRONIC LETTER

April 26, 2013

Mr. Kevyn Orr
Emergency Manager
Coleman A. Young Municipal Center
2 Woodward Avenue, Suite 1126
Detroit, MI 48226

RE: DWSD Offer Evaluation

Dear Mr. Orr:

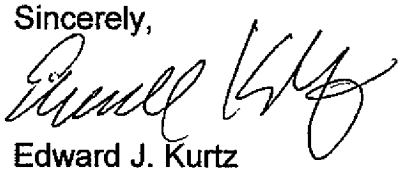
DWSD's offer of a Public/Public Partnership appears on the surface to offer significant cost of water savings, particularly in the near-term. However, further analysis exposes several flaws and weaknesses with the offer that reduce any potential appeal. First, the offer continues to use a grossly inaccurate estimate of the KWA operating and capital costs over the next thirty years. This one estimate is off by at least $800 million and perhaps by as much as $1 billion over that timeframe. And since DWSD claims "total savings to the Flint region are over $900 million", they have relied on this flawed estimate of KWA cost to make this claim. This offer also relies on a projection based on very little capital expenditures, no repairs on a system that is past its life expectancy, and annual rate increases of 4.7% over the next 30 years.

Secondly, and of much greater concern to Flint and GCDC, DWSD's offer of partnership would not so much foster a true collaborative relationship, but instead contractually transfers significant liability and risk for the next thirty years. DWSD's offer states the contract "would reflect more input into and control over system investments and cost variables." Unfortunately, these future investments and cost variables are not contained in the DWSD cost estimates. DWSD has included a fixed monthly charge to recover allocated capital revenue requirements, but this number is largely for past expenditures and debt costs, and does not include the significant future capital costs which will be required to maintain their nearly 50 year-old system. Once again quoting from the

DWSD April 24th offer letter under the Rate Increase Guarantee section – "DWSD proposes a guarantee that the capital portion of the Lake Huron System rate structure (the fixed monthly charge) will not increase for the life of the contract, unless additional capital investment is made in current and future Lake Huron System facilities." No one disputes that additional capital costs will be required that will total in the millions of dollars.

The DWSD offer is able to appear to offer savings on the surface since they have offloaded much of the above future capital costs. But to do so, DWSD has had to gloss over or simply ignore these large future expenditures. If these unaccounted for capital costs were to be calculated and added to the 30 year Flint and GCDC cost of water estimates, the DWSD offer becomes one in which the savings swing far to the advantage of the Karegnondi Water Authority.

Sincerely,



Edward J. Kurtz

ATTACHMENT 1

This offer has more risk involved than previous proposals. KWA would be responsible for between 20% and 100% of the repair costs on the pipeline and related assets from Port Huron

The numbers in the offer do not make sense. DWSD indicates savings of over $900 million while KWA's total cost over 30 years is less than $650 million.

Offer is based on very little capital improvements, no repairs and a 4.7% annual increase over the life of the contract.

There are no rate guarantees after the first year for capital, O & M or consumption.

KWA would be responsible for redundancy at a cost of $94.68 million per DWSD's estimate.

Does not guarantee a rate structure if system regionalizes or DWSD regionalizes, or Detroit enters bankruptcy.

Flint and Genesee County could have a connected waste/water system that serves all or part of five counties.

The potential for further consolidation of services between the city and the county i.e...water, wastewater, 911, etc,

This partnership will give Flint ownership of its own water supply system with real representation on its board of directors, making all treatment and delivery system decisions.

Flint's participation allows them to utilize its own water treatment facility that it has invested 50 million into and only currently exercises four days per year.

The investment gives us a new pipeline with a life expectancy of 75 years, as well as a 2nd product, untreated water. Under DWSD we would have no ownership after the end of the contract, and a new pipeline would still need to be built.

A 30 year contract with DWSD keeps us on a system that is 48 years old with a design life of 75 years. There will be necessary major investments or replacement costs that are not accounted for in this DWSD proposal.

KWA guarantees its capitol rate for 25 years. The capitol rate is 90 % of the total costs.

The commodity charge of $1.30 per mcf is mainly driven by energy costs. The whole operation will employ 5-7 people.

A thirty year contract with DWSD will lock Flint into hundreds of employees, labor costs and legacy costs.

The combination of low financing, labor and material make this the optimal time for this investment. At our meeting with the governor on April 19th Detroit acknowledged a second pipeline had to be built.

KWA could be used as a backup emergency supply for the existing 48 year old pipeline.

It brings a total economic package to our community i.e. We have the I-69 corridor, I-75 interchange, the rail system connected to Port Huron, and one of the busiest airports in the state. Owning our own water supply completes that package and keeps $25 million in our community.

Mr. Fausone's continued insistence on a 12 month timeline to calculate the termination fees leaves a question mark on the costs.

Construction Costs

- Rowe/AECOM/J & H $272,000,000
- TYJT $357,000,000

  Include: 10% bond coverage (dispelled)

  30% additional engineering (dispelled)

  Back-up power (dispelled)

- DWSD Starts at: $357,000,000 and adds:

  $134,630,000 for bond sizing

  $11,074,500 for bond sale cost

  For a total of: $503,274,500

  Plus need to collect $6,984,000 per year extra for bond coverage (20%)

Now we need:

20% bond coverage

30% additional engineering

38% bond sizing

We dispelled TYJT numbers; now DWSD starts with those numbers and adds more They add the same costs to Flint and GCDC construction costs (baseline figures and assumptions – KWA)

Baseline Figures and Assumptions - KWA Scenario

	DWSD Water Rate Structure			
	Fixed	Standby	Commodity	
2014	738,006	#N/A	13.01	Service ceases after 2016

Total Water Service Costs for Flint / Genesee County Drain Commission

Costs of Current Facilities / Operations

Same as DWSD scenario

Costs of Future Facilities / Operations

Financing Costs for New Projects	Flint WTP Improvements	GCDC WTP and Other	KWA System (a)
Project Cost	7,100,000	110,038,554	357,578,060
Bond Sizing Factor	37.65%	37.65%	37.65%
Additional Bond Proceeds Needed	2,670,000	41,430,000	134,630,000
Bond Sale Size	9,800,000	151,500,000	492,200,000
Bond Issuance Expenses - %	2.25%	2.25%	2.25%
Bond Issuance Expenses	220,500	3,408,800	11,074,500
Finance Rate	5.00%	5.00%	5.00%
Finance Term	25	25	25
Bond Reserve Size - %	10.00%	10.00%	10.00%
Bond Reserve Size	980,000	15,150,000	49,220,000
Capitalized Interest term - years	3	3	3
Capitalized Interest	1,470,000	22,725,000	73,830,000
Net Bond Proceeds	7,129,500	110,216,200	358,075,500
Annual Debt Service Payment	695,300	10,749,300	34,922,800
Debt Service Coverage Requirement	120.00%	120.00%	120.00%
Annual Debt Service Coverage	139,100	2,149,900	6,984,600
Replacement?	144,900	2,251,600	(b)
Total Capital Financing Revenue Req't	979,300	15,150,800	41,907,400
Operating Cost Estimate Starting in FY 2017	8,270,000	1,819,900	(c)

(a) excludes raw water reservoir
(b) assume no annual replacement required for pipeline
(c) $1.30 per Mcf inflated to 2017

From: Wurfel, Sara (GOV)
Sent: Tuesday, April 30, 2013 4:30 PM
To: Muchmore, Dennis (GOV); Roberts, John (GOV); Tedder, Greg (GOV); Rustem, William (GOV)
Cc: Holyfield, Jeff (GOV); Silfven, Ken (GOV)
Subject: Fwd: Flint/KWA

FYI - my understanding is that this is all worked out and everyone's on same page, yes?

Sent from my iPad

Begin forwarded message:

> **From:** "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
> **Date:** April 30, 2013, 4:24:19 PM EDT
> **To:** "Stanton, Terry A. (Treasury)" <StantonT@michigan.gov>, "Buhs, Caleb (Treasury)" <BuhsC@michigan.gov>, "Wurfel, Sara (GOV)" <WurfelS@michigan.gov>, "Silfven, Ken (GOV)" <silfvenk@michigan.gov>
> **Subject: Fwd: Flint/KWA**
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> > **From:** "Busch, Stephen (DEQ)" <BUSCHS@michigan.gov>
> > **Date:** April 30, 2013, 3:55:36 PM EDT
> > **To:** "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
> > **Subject: Flint/KWA**
> >
> > Brad,
> >
> > FYI. The press release on Flint's decision regarding KWA and DWSD is being postponed until tomorrow. Jeff Wright, Genesee Co., is in Chicago today and Kurtz wanted him to be available to answer questions.
> >
> > If something comes up my number is listed below.
> >
> > Stephen Busch, P.E.
> > Lansing and Jackson District Supervisor
> > Office of Drinking Water and Municipal Assistance
> > MDEQ
> > 517-643-2314

Subject:	Internal Flint Water Meeting
Location:	Executive Conference Room, 2nd Romney
Start:	Wed 1/28/2015 10:00 AM
End:	Wed 1/28/2015 11:00 AM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	Posthumus, Dick (GOV)
Required Attendees:	Clement, Elizabeth (GOV); Muchmore, Dennis (GOV); Walsh, John (GOV); Wisniewski, Wendy (GOV); Hall, Jean (GOV); Pleyte, Beth (Treasury); Saxton, Thomas (Treasury); Clayton, Stacie (GOV); Hollins, Harvey (GOV); Murray, David (GOV)

Attending:
Dick Posthumus
Dennis Muchmore
John Walsh
Beth Clement
Tom Saxton
Harvey Hollins
Dave Murray

Subject: FW: Conf Call re Flint Water
Location: PPI

Start: Thu 9/24/2015 2:30 PM
End: Thu 9/24/2015 3:00 PM

Recurrence: (none)

Meeting Status: Accepted

Organizer: Muchmore, Dennis (GOV)

-----Original Appointment-----
From: Muchmore, Dennis (GOV)
Sent: Thursday, September 24, 2015 1:41 PM
To: Muchmore, Dennis (GOV); Hollins, Harvey (GOV); Clement, Elizabeth (GOV); Clayton, Stacie (GOV); Baird, Richard (GOV); VanSickle, Michele (GOV); Murray, David (GOV); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Wurfel, Brad (DEQ); Lyon, Nick (DCH); Lasher, Geralyn (DCH); Grijalva, Nancy (DCH); Saxton, Thomas (Treasury); Pleyte, Beth (Treasury); Walsh, John (GOV); Hall, Jean (GOV); Mcbride, Bill (GOV)
Subject: Conf Call re Flint Water
When: Thursday, September 24, 2015 3:30 PM-4:00 PM (UTC-05:00) Eastern Time (US & Canada).
Where: PPI

PPI

Subject:	RDS/DM/BM/NL/DW/Maggie Pallone/Karen Tommasulo/Col. Etue & Lt. Col. Sands/HH/DMurray/TSaxton - Meeting Re: Flint Water
Location:	Governor's Conference Room, Romney
Start:	Tue 9/29/2015 12:00 PM
End:	Tue 9/29/2015 12:30 PM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	GovCalendar
Required Attendees:	Mcbride, Bill (GOV); Wisniewski, Wendy (GOV); Muchmore, Dennis (GOV); Lyon, Nick (DCH); Grijalva, Nancy (DCH); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Etue, Kriste (MSP); Klotz, Josephine (MSP); Hollins, Harvey (GOV); Clayton, Stacie (GOV); Hansen, Rachel (GOV); Murray, David (GOV); Adamczyk, Lynne (GOV); Sands, Thomas (MSP)
Optional Attendees:	Clement, Elizabeth (GOV); Agen, Jarrod (GOV)

PPI

HH by Phone

PPI

Host: **PPI** RH to dial in as host

Subject:	Comms. Update Mtg. re: Flint Water Plan
Location:	Great Lakes Conference Room, 6th floor, South Tower, Constitution Hall
Start:	Thu 10/1/2015 12:30 PM
End:	Thu 10/1/2015 1:15 PM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	Kennedy, Jordan (GOV)
Required Attendees:	Lasher, Geralyn (DHHS); Eisner, Jennifer (DHHS); Minicuci, Angela (DHHS); Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ); Feuerstein, Heather (DEQ); Stanton, Terry A. (Treasury); Wurfel, Sara (GOV); Murray, David (GOV); Paciorek, Josh (GOV)
Optional Attendees:	Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ)

Pizza will be provided.

Subject: RDS - Pre-Brief for Flint Water Media Conference Call
Location: By Phone

Start: Fri 10/2/2015 10:00 AM
End: Fri 10/2/2015 10:10 AM

Recurrence: (none)

Meeting Status: Accepted

Organizer: GovCalendar
Required Attendees: Wyant, Dan (DEQ); Lyon, Nick (DHHS); Wells, Eden (DHHS); Grijalva, Nancy (DHHS); Thelen, Mary Beth (DEQ); Hansen, Rachel (GOV); Wurfel, Sara (GOV)

RDS to Call: PPI

PPI

ACCESS CODE: PPI
HOST PASSWORD: PPI - SW to host

Subject:	RDS/Dan Wyant/Nick Lyon/Dr. Eden Wells/JA/SW- LIVE conference call with media regarding Flint water comprehensive action plan
Location:	By Phone - Lobby or RDS Room
Start:	Fri 10/2/2015 10:15 AM
End:	Fri 10/2/2015 10:40 AM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	GovCalendar
Required Attendees:	Agen, Jarrod (GOV); Wurfel, Sara (GOV)

RDS to call: **PPI**

- Call right at 8:15 a.m.; Call will be live immediately. SW will introduce you, the other participants and open it up for your opening remarks.
- Other participants will be Dan Wyant, DEQ Director; Nick Lyon, DHHS Director; and Dr. Eden Wells, MI's Chief Medical Executive
- SW will moderate and screen reporter questions.

Note: Website will not go live until 1:00 PM

Purpose: Media conference call to discuss Flint water comprehensive action plan

Possible Topics:
Flint water action plan
Lead in Flint water
Handling of Flint Water issue
Reconnecting Flint to Detroit water

Media invited:
Flint area media (print, TV and radio) – Flint Journal/Ron Fonger; WJRT TV 12, WNEM TV 5, WEYI TV 25, WFNT Radio
Associated Press – Ed White
Detroit News – Jim Lynch
Detroit Free Press – Nancy Kaffer, Kristi Tanner & Kathy Gray
Michigan Radio – Steve Carmody

Agenda:

8:15-8:16 AM	SW intro; sets parameters; introduces other participants; turns over to Gov for opening remarks
8:16-8:20 AM	Governor gives opening remarks; highlights reason for state action; introduces Director Wyant
8:20-8:24 AM	Director Wyant remarks; highlights key steps in the action plan; introduces Director Lyon
8:24-8:26 AM	Director Lyon remarks; highlights health components of the plan; turns back to Governor Snyder
8:26-8:37 AM	Governor Snyder opens it up for Q&A
8:37-8:39 AM	Governor Snyder closing remarks
8:39-8:40 AM	SW wraps up call; reminds reporters of embargo, 1:30 p.m. press conference and how to get a hold of everyone

Recent Articles:

Freep: Legislators take action to fix Flint water supply- http://www.freep.com/story/news/politics/2015/10/01/legislators-take-action-fix-flint-water-supply/73152540/

WDIV: Public health emergency declared due to lead in Flint water- http://www.clickondetroit.com/news/public-health-emergency-declared-due-to-lead-in-flint-water/35601670

Mlive: Governor says fallout from Flint water switch wasn't fully understood- http://www.mlive.com/news/flint/index.ssf/2015/09/snyder_says_he_helped_bring_wa.html

Freep: Snyder finally says lead in Flint water may be problem- http://www.freep.com/story/opinion/columnists/nancy-kaffer/2015/09/30/time-gov-says-lead-flint-water-may-problem/73088666/

Mlive: Legislative Black Caucus urges state of emergency for Flint water- http://www.mlive.com/news/flint/index.ssf/2015/09/michgans_black_causus_urges_go.html

MDHHS Names Eden V. Wells, M.D., M.P.H. as Michigan's New Chief Medical Executive http://www.michigan.gov/som/0,4669,7-192-29942_34762-353542--,00.html

Market: Statewide

Contact: Conference line: **PPI**

Subject:	RDS - REMARKS (AHeaton) Press Conference Re: Flint Water
Location:	Mott Foundation Conference Center, 503 S. Saginaw, Flint
Start:	Thu 10/8/2015 10:00 AM
End:	Thu 10/8/2015 10:42 AM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	GovCalendar
Required Attendees:	Agen, Jarrod (GOV); Biehl, Laura (GOV); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Hollins, Harvey (GOV); Clayton, Stacie (GOV); Lyon, Nick (DHHS); Grijalva, Nancy (DHHS)
Optional Attendees:	Heaton, Anna (GOV); Wurfel, Sara (GOV)

Purpose: Press conference regarding Flint water

Program Participants:
Flint Mayor Dayne Walling
DEQ Director Dan Wyant
DHHS Director Nick Lyon
Dr. Eden Wells, DHHS
Ridgeway White, Mott Foundation
Harvey Hollins
Sen. Jim Ananich

Non-Speaking Invitees: (all attendance unconfirmed)
Rep. Tim Greimel
Rep. Phil Phelps
Rep. Sheldon Neely
Flint City Councilmembers
Faith Based Community members
U of M Flint Chancellor Susan Borrego (RDS talked to 10/7/15 at the Higher Ed Summit)
Amy Hovey, Staff of Congressman Dan Kildee
Jamie Gaskin, CEO of Genesee County United Way
Tim Herman, CEO of Flint and Genesee Chamber of Commerce
Brian Larkin, Flint and Genesee Chamber of Commerce (fmr. EO staff)
Kathryn Thomas, VP of Communications for Mott Foundation
Neal Hegarty, VP of Programs for Mott Foundation
Kimberly Roberson, Director of Flint Area Grantmaking Program for Mott Foundation

Agenda:

10:00 AM – 10:01 AM	Harvey Hollins kicks off press conference; introduces Governor
10:01 AM – 10:05 AM	Governor gives remarks
10:05 AM – 10:06 AM	Harvey Hollins introduces Mayor Dayne Walling
10:06 AM – 10:10 AM	Mayor Walling gives remarks
10:10 AM – 10:11 AM	Harvey Hollins introduces DEQ Director Dan Wyant
10:11 AM – 10:15 AM	Director Wyant gives remarks
10:15 AM – 10:16 AM	Harvey Hollins introduces DHHS Director Nick Lyon
10:16 AM – 10:17 AM	Director Nick Lyon brief comments, introduces Dr. Eden Wells
10:17 AM – 10:20 AM	Dr. Eden Wells remarks

10:20 AM – 10:21 AM	Harvey Hollins introduces Senator Jim Ananich
10:21 AM – 10:26 AM	Senator Jim Ananich remarks
10:26 AM – 10:27 AM	Harvey Hollins introduces Ridgway White of Mott Foundation
10:27 AM – 10:32 AM	Ridgway White gives remarks
10:32 AM – 10:42 AM	Q&A from the podium (SW to moderate)
10:42 AM	Event concludes; Governor departs

OPEN Press

High level points:

- Protecting the health and safety of our residents in Flint and across Michigan is always our top priority.
    - All Michigan residents need access to safe, clean water
- That's why today, in consultation with health and water experts in our state agencies, I'm advocating reconnecting the Flint drinking water with the Great Lakes Water Authority.
- I'm recommending to my partners in the Legislature that the state government provide $6 million of the needed $12 million to reconnect with authority.
    - The Flint city government has agreed to cover $2 million of this cost, and the Charles Stewart Mott Foundation is generously offered to donate $4 million.
- What you are seeing here today is a community coming together to work toward solving a problem.
    - I appreciate the assistance of Mayor Walling, and the U.S. Environmental Protection Agency.
    - This is a collaborative approach, and I appreciate that community organizations including the United Way and come forward to assist.

Attachments:

1. Briefing
2. FAQs for Media Q&As
3. Press Release

Briefing.pdf

FAQs for Media QAs.pdf

Press Release.pdf

Staff/Detail
Venue POC: Kathryn Thomas (mobile?) PPI
Security POC: Phil Snyder (mobile) PPI
Advance: CLU
Comms: All

Briefing: Flint Water System Press Conference
Thursday, Oct. 8, 2015
Mott Foundation/Commerce Center Building Ground Floor
519 S. Saginaw St., Flint
Communications: Sara Wurfel, 517-599-3470, wurfels@michigan.gov
Dave Murray, 517-449-8343, murrayd1@michigan.gov

Purpose:

We're announcing the decision to reconnect Flint to the Detroit Water and Sewerage Department, a collaborative effort between the state government, Flint city government and the Mott Foundation.

High level points:

- Protecting the health and safety of our residents in Flint and across Michigan is always our top priority.
    - All Michigan residents need access to safe, clean water.

- That's why today, in consultation with health and water experts in our state agencies, I'm advocating reconnecting the Flint drinking water with the Great Lakes Water Authority.

- I'm recommending to my partners in the Legislature that the state government provide $6 million of the needed $12 million to reconnect with authority.
    - The Flint city government has agreed to cover $2 million of this cost, and the Charles Stewart Mott Foundation is generously offered to donate $4 million.

- What you are seeing here today is a community coming together to work toward solving a problem.
    - I appreciate the assistance of Mayor Walling, and the U.S. Environmental Protection Agency.
    - This is a collaborative approach, and I appreciate that community organizations including the United Way and come forward to assist.

Agenda:

9:00 AM - 9:45 AM	Gov meets with Mayor Walling in [Room 1]
9:45 AM – 10:00 AM	Pre-Brief in [Room 2]
10:00 AM – 10:01 AM	Harvey Hollins kicks off press conference; introduces Governor
10:01 AM – 10:05 AM	Governor gives remarks
10:05 AM – 10:06 AM	Harvey Hollins introduces Mayor Dayne Walling
10:06 AM – 10:10 AM	Mayor Walling gives remarks
10:10 AM – 10:11 AM	Harvey Hollins introduces DEQ Director Dan Wyant
10:11 AM – 10:15 AM	Director Wyant gives remarks
10:15 AM – 10:16 AM	Harvey Hollins introduces DHHS Director Nick Lyon
10:16 AM – 10:17 AM	Director Nick Lyon introduces Dr. Eden Wells
10:17 AM – 10:20 AM	Dr. Eden Wells remarks
10:20 AM – 10:21 AM	Harvey Hollins introduces Ridgway White of Mott Foundation
10:21 AM – 10:25 AM	Ridgway White gives remarks
10:25 AM – 10:35 AM	Q&A from the podium
10:35 AM	Event concludes; Governor departs

Attendees: Roughly 20 in audience

Susan	Borrego	Chancellor, U of M Flint
Oscar	Overton	Pastor
Alfred	Harris	Pastor

Latrelle	Holmes	Pastor
Jim	Ananich	Michigan Senate
Sheldon	Neely	Michigan House
Phil	Phelps	Michigan House
Jeff	Wright	Drain Commissioner, Genesee County
Amy	Hovey	Dan Kildee office
Jamie	Gaskin	Dan Kildee office
Tim	Herman	Flint Chamber of Commerce
Brian	Larkin	Flint Chamber of Commerce
Eric	Mays	Flint City Council
Jacqueline	Poplar	Flint City Council
Kerry	Nelson	Flint City Council
Joshua	Freeman	Flint City Council
Wantwaz	Davis	Flint City Council
Herbert	Winfrey	Flint City Council
Monica	Galloway	Flint City Council
Vicki	VanBuren	Flint City Council
Scott	Kincaid	Flint City Council

Speaker comments:

RDS – Collaboration led to solution, outline of solution
Mayor Walling – Importance of solution to Flint
Dan Wyant – School testing results, overview of steps on transition from Flint River to DWSD
Nick Lyon – DHHS involvement
Dr. Eden Wells – Testing of water going forward, use of filters approved by NSF
Ridgway White – Importance of collaboration/commitment to Flint

Talking points:

- Protecting the health and safety of our residents in Flint and across Michigan is always our top priority.
    - All Michigan residents need access to safe, clean water

- That's why today, in consultation with health and water experts in our state agencies, I'm advocating reconnecting the Flint drinking water with the Great Lakes Water Authority.

- I'm recommending to my partners in the Legislature that the state government provide $6 million of the needed $12 million to reconnect with authority.
    - The Flint city government has agreed to cover $2 million of this cost, and the Charles Stewart Mott Foundation is generously offered to donate $4 million.
    - The Michigan Department of Health and Human Services and the Department of Environmental Quality today also is committing an additional $3.5 million for water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

- What you are seeing here today is a community coming together to work toward solving a problem.
    - I appreciate the assistance of Mayor Walling, and the U.S. Environmental Protection Agency.
    - This is a collaborative approach, and I appreciate that community organizations including the United Way and come forward to assist.

- Today's announcement in an important step as we move forward together.
    - But it is not our first step, nor will it be our last.

        - This announcement builds on work we've already set in place.
            - That includes $4.2 million in state grants and loan restructuring to help identify and fix infrastructure problems.
            - State agencies have been working closely with Flint leaders and the community for more than a year.

- There will be more to do.
    - Flint has an aging water infrastructure system with challenges that we – together – will continue to address.

- We will continue to test Flint schools for lead levels in drinking water.
    - Schools across the state might also have questions.
    - The Department of Environmental Quality will work with districts across the state to provide testing.
        - Districts can send water samples and paperwork and the nominal charge. (It costs $26 per sample).

- The steps outlined in the comprehensive action plan are still in effect.

FAQs for Media Q&As

Switch to Great Lakes Water Authority

What finally pushed the state to this decision?

This was the City's request, and the Governor supports it, based on several key factors:
In the near term, DWSD water will be easier to manage. It comes from a more stable source than the river, it is fully optimized for corrosion control, and it is clear that residents of Flint have more confidence in this water source.

Will this solve Flint's water crisis?

In combination with the other short term, intermediate term and long-term steps outlined last week, this move represents a big step forward. Flint still has serious system maintenance challenges it must address.

If you're saying residents will still have lead because of their plumbing, does that mean every other city in this state has a lead problem?

Many areas of the state have lead in their infrastructure mix.

Where's the state getting the money to fund this?

We have submitted a formal request to lawmakers via the appropriations process.

Where's the city getting the money to fund this?

The city is contributing all it can, and is getting assistance for its match from the Mott Foundation.

How long will the switch take?

The switch will be completed by the City and Great lakes Water Authority, but our understanding is that it can be accomplished in the very near term once the arrangements are complete.

How long will it take before Detroit's corrosion controls provide protection for Flint?

It will take some time for the corrosion control additives to build on pipe walls throughout the system. Estimates vary. The state can assure we will commence monitoring of the system early 2016 and report results as we get them to keep the community updated.

Why do residents still need to use filters and bottled water?

The filters and bottled water are responsible precautions for any resident concerned about lead exposure.

Do the filters actually work? We've been hearing they don't protect for lead.

Yes, the filters work. They are all certified for lead removal by the National Sanitation Foundation.

The filters are only good for 100 gallons. What happens when they are used up?

They will need to be replaced. And residents can get a new filter.

What about restaurants?

What's going to be done about lead service lines?

Long term, this is the only permanent solution to lead exposure. The state has committed to helping the city accomplish this goal long term.

Do you wish you'd made this switch sooner?
We support the City's decision. We can't look backward. We feel the state has responded quickly and effectively as information has surfaced, been investigated and verified. While the City of Flint is, right now, in compliance with the federal Lead and
Copper Rule, we recognize there is a disparity between surveillance testing and other testing happening in the community that we need to better understand and we are working on developing our knowledge.

Schools testing

What do these results say?
The results say we need to further investigate Flint schools and help the schools find clearer causes for some the results we got.

Any theories about what's going on?
It is possible there are specific points in the plumbing that have lead components which need to be replaced, but we can't say anything definitively until we perform an investigation at each school.

Do the schools have lead service lines? If not, why are they getting such high results?
The schools we tested initially do not have lead service lines. There are a few possible reasons why lead is being detected at specific points in the buildings and not others. When we know things definitively, we will make the information public.

How long do the schools have to stay on bottled water? Just until the switch to Detroit, or longer term?
We are encouraging the schools to continue their current protective measures as a precaution until we can get into the buildings and get more answers.

Why did you only test 13 schools?
That was what the Flint Public Schools requested.

What happens to other schools?
We will test all the schools in Flint if they request it.

What about the schools that can't afford to update their entire plumbing systems?
This is why we are having plumbing assessments completed. There is no way to know yet what each building will require.

How confident are you in your testing? You've got results all over the map.
We are confident that our testing meets the requirements for the federal Lead and Copper Rule, which is surveillance monitoring. The bigger question is whether surveillance monitoring meets the public health protection standards that Lead Exposure Testing methods do. The EPA is working on that question now, and we are engaged in that dialogue.

What do you mean by "health exposure testing"? What are you doing next?

The 90th percentile of your results is still below 15 ppb. Does that make you more or less confident in your testing and in your protocols?

It makes us confident that the testing protocol delivers consistent results. But again, it does raise questions about whether this testing method shows what people think it does or what they really want to know, which is actual lead exposure from lead plumbing in a home.

Any idea how long kids have been exposed to lead? Was it before the move to the Flint River?
That is possible. We don't know.

How does the state bring this new information into the broader picture of kids' lead exposure across the state?

RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
EXECUTIVE OFFICE
LANSING

BRIAN CALLEY
LT. GOVERNOR

CONTACTS:	FOR IMMEDIATE RELEASE
Sara Wurfel or Dave Murray Governor's Office: 517-335-6397 Brad Wurfel, 517-284-6713 Department of Environmental Quality Jennifer Eisner, 517-230-9804 Department of Health and Human Services	Thursday, Oct. 8, 2015

Gov. Rick Snyder: Move back to Detroit water provides best protection for public health in Flint

State, Mott Foundation and city form partnership to fund switch

FLINT, Mich. – Flint families and children will be better protected by reconnecting with the Great Lakes Water Authority as the source of the city's drinking water, Gov. Rick Snyder said.

Snyder said Thursday that he will request the state Legislature to provide half, or $6 million, of the $12 million needed to reconnect with the authority. The Flint city government will provide $2 million and the Charles Stewart Mott Foundation will donate $4 million.

"All Flint residents need clean, safe drinking water," Snyder said. "The technical experts helping the city on its water advisory all agree this move back to the Great Lakes Water Authority provides the best public health protection for children and families. This effort today is the result of people coming together to solve a problem. I appreciate Detroit's willingness to reconnect with Flint, the Mott Foundation's generous donation, and the dedication of all parties to come together to protect Flint families and children."

The Michigan Departments of Environmental Quality and Health and Human Services today also committed an additional $3.5 million for water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

Flint city leaders requested the state's help to fund the reconnection after a Wednesday meeting of Flint's Technical Advisory Committee. Flint's move to the Great Lakes Water Authority is expected to cost about $1.3 million per month until the Karegnondi Water Authority is completed next summer.

INSERT MAYOR QUOTE HERE

The move to Detroit water, which is drawn from Lake Huron, carries many public health benefits. As large bodies of water, the Great Lakes are naturally prone to fewer problems from large rain events and other runoff issues that can be present in shallower rivers. Additionally, the Great Lakes Water Authority has already fully optimized its corrosion control, using phosphates to help coat the insides of pipes and prevent lead from leaching into the water.

However, reconnecting with the authority will not completely resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control. Additionally, some households in the city could experience lead in their drinking water until all lead pipes and plumbing are replaced.

INSERT MOTT FOUNDATION QUOTE HERE

To best protect public health, Snyder said state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure.

Free filters are available for current MDHHS clients at the 125 E. Union St. or 4809 Clio Road MDHHS office locations. For residents who are not currently enrolled in MDHHS assistance programs, free filters are available at the Genesee County Community Action Resource Department offices at 2727 Lippincott and 601 North Saginaw in Flint. Staff will be at all four locations from 9 a.m. to 4 p.m., Monday through Friday, to distribute filters and assist residents who have questions about proper installation. At the Lippincott location only, extended hours will be offered this weekend, including until 7 p.m. on Thursday and Friday and from 10 a.m. to 2 p.m. on Saturday.

Other good practices for residents concerned about lead include turning on the cold water tap and running the water until it's as cold as it will go. Additionally, only use cold water for cooking, drinking and especially mixing baby formula.

School test results released; more investigation planned

The state today also released the first results from its lead screening program in schools and homes. Of 37 total samples taken at 13 buildings, four samples spread over three buildings exceeded the federal action level of 15 parts per billion.

However, this sampling provides only an initial screen, and the state is committing to further testing water and inspecting plumbing at these schools. Until testing is complete, schools are advised to continue using bottled water and filtration as a precaution to protect children.

In addition, free testing is still available for any other Flint school, including daycares and Head Starts. Free testing is also available for any Flint resident.

Additional information, including more detailed lead screening results, is available at www.michigan.gov/flintwater.

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Subject:	RDS/LB – LIVE radio interview with Paul W. Smith
Location:	Cobo Center, Ballroom B
Start:	Fri 10/9/2015 7:37 AM
End:	Fri 10/9/2015 7:43 AM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	GovCalendar
Required Attendees:	Heaton, Anna (GOV); Biehl, Laura (GOV); Agen, Jarrod (GOV)

Purpose: To discuss Detroit and regional issues during the 2015 Goodfellows breakfast.

Possible Topics:

- Goodfellows breakfast/Detroit
- Flint Water/return to Great Lakes Water Authority
- Detroit Public Schools
- Roads

Recent WJR news:

Governor Snyder: Flint will re-connect to the Detroit water system http://www.wjr.com/2015/10/08/governor-snyder-flint-will-re-connect-to-the-detroit-water-system/

UAW and Chrysler reach tentative deal; strike averted
http://www.wjr.com/2015/10/08/uaw-and-chrysler-reach-tentative-deal/

House Majority Leader Kevin McCarthy drops out of the race to succeed House Speaker John Boehner
http://www.wjr.com/2015/10/08/house-majority-leader-kevin-mccarthy-drops-out-of-the-race-to-succeed-house-speaker-john-boehner/

Recent guests:

10/8/15 - Paul Eisenstein - Eisenstein, chief of TheDetroitBureau.com, calls in to talk with Paul W about the FCA/UAW settlement that happened late last night, Paul explains the details of the tentative contract.
10/8/15 - Bill Pulte - Pulte, CEO, Pulte Capital Partners, checks in with Paul W about blight in the City of Detroit. Bill tells Paul W that his work in Pontiac is about half done and about the alleged problems with 'blight busting' in Detroit.
10/6/15 - Dan Kildee - Kildee talks to Guy Gordon about the problems with Flint's drinking water and he says the lead levels recently reported in Flint's water are unacceptable.

Last interview: At Frankfurt auto show 9/16/15.

Market: SE Michigan radio market and online at www.wjr.com

Contact: Ann Thomas cell PPI

Subject: RDS- TAPED Radio interview with Frank Beckmann on WJR Radio
Location: By Phone

Start: Tue 10/20/2015 8:20 AM
End: Tue 10/20/2015 8:30 AM

Recurrence: (none)

Meeting Status: Accepted

Organizer: GovCalendar
Required Attendees: Biehl, Laura (GOV); Wurfel, Sara (GOV); Murray, David (GOV)

RDS to call: PPI

Purpose: To update listeners about your work to improve education in Detroit, discuss proposed legislation and why this impacts the rest of the state.

Possible Topics:

- Detroit schools reform
- EAA/FBI probe
- Roads
- Flint water

Recent articles:
Freep: Snyder's plan to overhaul DPS could cost $715M - http://www.freep.com/story/news/2015/10/19/snyder-offers-more-details-detroit-schools-plan/74208674/
Detroit News: Snyder's Detroit school reform tab: $715M over 10 years- http://www.detroitnews.com/story/news/local/detroit-city/2015/10/19/detroit-education-reform/74207124/
AP: Gov. Snyder: Michigan liable if Detroit schools not fixed - http://www.wral.com/gov-snyder-michigan-liable-if-detroit-schools-not-fixed/14986215/
Michigan Radio: Gov. Snyder proposes new plan to overhaul Detroit's school system - http://michiganradio.org/post/gov-snyder-proposes-new-plan-overhaul-detroits-school-system#stream/0 Detroit News: Snyder details plans to fix Detroit schools; could cost state $715 million - http://www.crainsdetroit.com/article/20151019/NEWS/151019869/snyder-fixing-detroit-schools-could-cost-state-715-million
Mlive: How Snyder plans to sell his $715 million plan for Detroit schools to Michigan lawmakers (MLive) - http://www.mlive.com/lansing-news/index.ssf/2015/10/how_snyder_plans_to_sell_his_7.html#incart_river_home
Last interview: 10/2/15 re: Ambassador trip in San Fran and roads

Market: Southeast Michigan- online at wjr.com

Contact: Studio- 313-872-7600; Back-up: Producer Terri Leib cell- PPI

Subject:	Flint actions meeting
Location:	Con Hall 6th floor Director's conference room
Start:	Wed 10/21/2015 4:30 PM
End:	Wed 10/21/2015 5:00 PM
Show Time As:	Tentative
Recurrence:	(none)
Meeting Status:	Tentatively accepted
Organizer:	Wurfel, Brad (DEQ)
Required Attendees:	Moon, Jason (LARA); Murray, David (GOV); Wurfel, Sara (GOV) (Wurfels@michigan.gov); Eisner, Jennifer (DHHS); Minicuci, Angela (DHHS); Tommasulo, Karen (DEQ); Holton, Jennifer (MDARD)

We need proactive media. Want everyone to come with whatever they have in the hopper so we can figure out how to mobilize a steady string of proactive Flint news without tripping over one another, and consider news opportunities as a group.
Thanks.
b

Subject: RDS- LIVE radio interview with Bankole Thompson on WDET's "Redline" show
Location: By Phone

Start: Thu 10/22/2015 11:05 AM
End: Thu 10/22/2015 11:27 AM

Recurrence: (none)

Meeting Status: Accepted

Organizer: GovCalendar
Required Attendees: Wurfel, Sara (GOV); Biehl, Laura (GOV); Murray, David (GOV)

RDS to call: PPI
Live immediately

Purpose: To update listeners about your work to improve education in Detroit, discuss proposed legislation and why this impacts the rest of the state.

Possible Topics:

- Detroit schools reform
- EAA/FBI probe
- Roads
- Flint water

Recent articles:
Freep: Snyder's plan to overhaul DPS could cost $715M - http://www.freep.com/story/news/2015/10/19/snyder-offers-more-details-detroit-schools-plan/74208674/
Detroit News: Snyder's Detroit school reform tab: $715M over 10 years- http://www.detroitnews.com/story/news/local/detroit-city/2015/10/19/detroit-education-reform/74207124/
AP: Gov. Snyder: Michigan liable if Detroit schools not fixed - http://www.wral.com/gov-snyder-michigan-liable-if-detroit-schools-not-fixed/14986215/
Michigan Radio: Gov. Snyder proposes new plan to overhaul Detroit's school system - http://michiganradio.org/post/gov-snyder-proposes-new-plan-overhaul-detroits-school-system#stream/0 Detroit News: Snyder details plans to fix Detroit schools; could cost state $715 million - http://www.crainsdetroit.com/article/20151019/NEWS/151019869/snyder-fixing-detroit-schools-could-cost-state-715-million
Mlive: How Snyder plans to sell his $715 million plan for Detroit schools to Michigan lawmakers (MLive) - http://www.mlive.com/lansing-news/index.ssf/2015/10/how_snyder_plans_to_sell_his_7.html#incart_river_home

Last interview: 7/16/15 on roads and Detroit

Market: Southeast Michigan and online at http://wdet.org/shows/redline/

Contact: WDET studio: 313-577-1019; Back-up- Bankole cell: PPI

To: Kaffer, Nancy
Cc: Henderson, Stephen
Subject: RE: Flint

If this isn't for tomorrow, Nancy, then we should slate some time to talk at length tomorrow. I will be more than happy to walk through the history of what's been done already and what's in the works.

This is absolutely an issue the administration has been actively engaged on and will continue to do so – let there be no Q on that front.

From: Kaffer, Nancy [mailto:nkaffer@freepress.com]
Sent: Monday, September 28, 2015 5:38 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Henderson, Stephen <shenderson@freepress.com>
Subject: RE: Flint

Hi Sara,

Wanted to touch base again before leaving for the day. I'm writing on this again this week, and really would like to know a) if you guys now believe there is an issue with lead in the water, or are engaging in further testing/analysis to determine if lead is an issue, and b) what exactly you guys are doing to help get safe drinking water to Flint kids.

Best,

Nancy

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Kaffer, Nancy
Sent: Monday, September 28, 2015 11:46 AM
To: 'Wurfel, Sara (GOV)' <Wurfels@michigan.gov>
Subject: RE: Flint

Can you give me some details of the things that you think are wrong? We always want to know about mistakes or errors.

Also, I asked you last week to comment on the situation – still interested in hearing what you are doing to respond to the water situation in Flint, which has resulted in an increasing number of children with elevated blood-lead levels. We're doing a follow-up, and would love to know what specifically the governor's office is doing.

Nancy Kaffer

Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, September 28, 2015 11:26 AM
To: Kaffer, Nancy <nkaffer@freepress.com>
Subject: RE: Flint

I'm still in disbelief and simmering to be quite frank over that column, Nancy. That was fairly unbelievable - 'resounding yawn'? Seriously? You picked and chose facts and components to weave together a set narrative, leaving out so many critical pieces of all the state, Governor and administration have done to help the city and its residents in this situation.

There has been and there will be more that we're doing on this front -- again do everything possible to play a supportive role and work in collaborative fashion across all levels of government, with the community, faith and business leaders, and residents. Protecting public health is paramount and safe, clean, accessible drinking water is essential. That's what we solely focused on helping ensure.

Back in touch later.
SW

From: Kaffer, Nancy [mailto:nkaffer@freepress.com]
Sent: Monday, September 28, 2015 11:14 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint

Any updates/changes on plans to handle the Flint water situation?

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

Subject: FW: Press release with mayor, Mott quotes
Attachments: 151008 Flint water release_V4.docx

Greetings Kathryn –

Per our conversation just a bit ago, below is latest version of release that works to incorporate and marry all of yours and the city's comments, along with others. Believe we got most addressed.

Please review and make sure all good from your end.

We can do any final, major tweaks in the morning.

Gov. Rick Snyder: Move back to Detroit water provides best protection for public health in Flint

State, Mott Foundation, city form partnership to fund switch until KWA is ready

FLINT, Mich. – Flint families and children will be better protected by reconnecting with the Great Lakes Water Authority as the source of the city's drinking water until the Karegnondi Water Authority pipeline is completed, Gov. Rick Snyder said.

Snyder said Thursday that he will request the state Legislature to provide half, or $6 million, of the $12 million needed to reconnect with the authority through next summer, when the KWA is expected to be completed. The Flint city government will provide $2 million and the Charles Stewart Mott Foundation has committed $4 million.

"All Flint residents need clean, safe drinking water," Snyder said. "The technical experts helping the city on its water advisory all agree this move back to the Great Lakes Water Authority provides the best public health protection for children and families. This effort today is the result of people coming together to solve a problem. I appreciate Detroit's willingness to reconnect with Flint, the Mott Foundation's generous commitment, and the dedication of all parties to come together to protect Flint families and children."

The Michigan Departments of Environmental Quality and Health and Human Services today also committed an additional $3.5 million for water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

Flint city leaders requested the state's help to fund the reconnection and to assist with health and infrastructure issues. Flint's move to the Great Lakes Water Authority is expected to cost about $1.3 million per month until the Karegnondi Water Authority is completed next summer.

"It's heartening to know so many people are working at so many levels to bring safe, clean water back to Flint," Mott Foundation President Ridgway White said. "We believe that reconnecting the city's water supply to Lake Huron is the right and necessary thing to do, and we're glad we could help the state and the city make it happen."

The move to Detroit water, which is drawn from Lake Huron, carries many public health benefits. As large bodies of water, the Great Lakes are naturally prone to fewer problems from large rain events and other runoff issues that can sometimes be present in shallower rivers. Additionally, the Great Lakes Water Authority water already has additional corrosion control, using phosphates to help coat the insides of pipes and prevent lead from leaching into the water.

However, reconnecting with the authority will not completely resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control. Additionally, some households in the city could experience lead in their drinking water until all lead pipes and plumbing are replaced.

"Reconnecting to Detroit is the fastest way to deliver clean, safe water to Flint and stabilize the infrastructure system," Flint Mayor Dayne Walling said. "I appreciate the state, the Mott Foundation, Detroit, and the county's participation in a solution for Flint's water problems. The health and safety of Flint's families, children and seniors is my top priority and reconnecting to Detroit is a major step that the city could not take alone given budget constraints."

To best protect public health, Snyder said state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure.

Free filters are available for current MDHHS clients at the 125 E. Union St. or 4809 Clio Road MDHHS office locations. For residents who are not currently enrolled in MDHHS assistance programs, free filters are available at the Genesee County Community Action Resource Department offices at 2727 Lippincott and 601 North Saginaw in Flint. Staff will be at all four locations from 9 a.m. to 4 p.m., Monday through Friday, to distribute filters and assist residents who have questions about proper installation. At the Lippincott location only, extended hours will be offered this weekend, including until 7 p.m. on Thursday and Friday and from 10 a.m. to 2 p.m. on Saturday.

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###

STATE OF MICHIGAN
EXECUTIVE OFFICE
LANSING

RICK SNYDER
GOVERNOR

BRIAN CALLEY
LT. GOVERNOR

CONTACTS:	FOR IMMEDIATE RELEASE
Sara Wurfel or Dave Murray Governor's Office: 517-335-6397 Brad Wurfel, 517-284-6713 Department of Environmental Quality Jennifer Eisner, 517-230-9804 Department of Health and Human Services	Thursday, Oct. 8, 2015

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State, Mott Foundation, city form partnership to fund switch until KWA is ready

FLINT, Mich. – Flint families and children will be better protected by reconnecting with the Great Lakes Water Authority as the source of the city's drinking water until the Karegnondi Water Authority pipeline is completed, Gov. Rick Snyder said.

Snyder said Thursday that he will request the state Legislature to provide half, or $6 million, of the $12 million needed to reconnect with the authority through next summer, when the KWA is expected to be completed. The Flint city government will provide $2 million and the Charles Stewart Mott Foundation has committed $4 million.

"All Flint residents need clean, safe drinking water," Snyder said. "The technical experts helping the city on its water advisory all agree this move back to the Great Lakes Water Authority provides the best public health protection for children and families. This effort today is the result of people coming together to solve a problem. I appreciate Detroit's willingness to reconnect with Flint, the Mott Foundation's generous commitment, and the dedication of all parties to come together to protect Flint families and children."

The Michigan Departments of Environmental Quality and Health and Human Services today also committed an additional $3.5 million for water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

Flint city leaders requested the state's help to fund the reconnection and to assist with health and infrastructure issues. Flint's move to the Great Lakes Water Authority is expected to cost about $1.3 million per month until the Karegnondi Water Authority is completed next summer.

"It's heartening to know so many people are working at so many levels to bring safe, clean water back to Flint," Mott Foundation President Ridgway White said. "We believe that reconnecting the city's water supply to Lake Huron is the right and necessary thing to do, and we're glad we could help the state and the city make it happen."

The move to Detroit water, which is drawn from Lake Huron, carries many public health benefits. As large bodies of water, the Great Lakes are naturally prone to fewer problems from large rain events and other runoff issues that can sometimes be present in shallower rivers. Additionally, the Great Lakes Water Authority water already has additional corrosion control, using phosphates to help coat the insides of pipes and prevent lead from leaching into the water.

However, reconnecting with the authority will not completely resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control. Additionally, some households in the city could experience lead in their drinking water until all lead pipes and plumbing are replaced.

"Reconnecting to Detroit is the fastest way to deliver clean, safe water to Flint and stabilize the infrastructure system," Flint Mayor Dayne Walling said. "I appreciate the state, the Mott Foundation, Detroit, and the county's participation in a solution for Flint's water problems. The health and safety of Flint's families, children and seniors is my top priority and reconnecting to Detroit is a major step that the city could not take alone given budget constraints."

To best protect public health, Snyder said state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure.

Free filters are available for current MDHHS clients at the 125 E. Union St. or 4809 Clio Road MDHHS office locations. For residents who are not currently enrolled in MDHHS assistance programs, free filters are available at the Genesee County Community Action Resource Department offices at 2727 Lippincott and 601 North Saginaw in Flint. Staff will be at all four locations from 9 a.m. to 4 p.m., Monday through Friday, to distribute filters and assist residents who have questions about proper installation. At the Lippincott location only, extended hours will be offered this weekend, including until 7 p.m. on Thursday and Friday and from 10 a.m. to 2 p.m. on Saturday.

Other good practices for residents concerned about lead include turning on the cold water tap and running the water until it's as cold as it will go. Additionally, only use cold water for cooking, drinking and especially mixing baby formula.

School test results released; more investigation planned

The state today also released the first results from its lead screening program in schools and homes. Of 37 total samples taken at 13 buildings, four samples spread over three buildings exceeded the federal action level of 15 parts per billion.

However, this sampling provides only an initial screen, and the state is committing to further testing water and inspecting plumbing at these schools. Until testing is complete, schools are advised to continue using bottled water and filtration as a precaution to protect children.

In addition, free testing is still available for any other Flint school, including daycares and Head Starts. Free testing is also available for any Flint resident.

Additional information, including more detailed lead screening results, is available at www.michigan.gov/flintwater.

###

From: Murray, David (GOV)
Sent: Tuesday, March 03, 2015 3:11 PM
To: Wurfel, Sara (GOV)
Subject: Flint water issues

We're having a conference call at 3:15 to discuss some new Flint water issues.

Nutshell: Agitators claiming "environmental racism" and comparing Flint water to the gas chambers at concentration camps. But Flint water still determined to be safe.

Yup.

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

From: Murray, David (GOV)
Sent: Wednesday, March 04, 2015 6:15 AM
To: Wurfel, Sara (GOV)
Subject: Flint water response points
Attachments: Flint water response points.docx

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

Flint water briefing and talking points

Communications: Dave Murray, murrayd1@michigan.gov, 517-449-8343

The problem

- Community activists are continuing to raise public concerns about the quality of Flint water, and the talk has grown uglier.
    - Longtime activist A.C. Dumas is raising the issue of an "environmental racism" lawsuit.
    - The president of the Michigan chapter of Al Sharpton's National Action Network told the media on Tuesday that Flint water is "almost as bad as gas chambers for Jews."

High-level points

- Flint residents need and deserve clean, safe water.

- There is potentially some short-term assistance the state and other groups can provide, but Flint needs significant upgrades to its water infrastructure to replace an aging system that has long been neglected.

- The state recently awarded the city $2 million in grants to help with some of the issues, including a plan to locate the areas where pipes are most in need of repair to allow the city to prioritize its replacement projects.

- The Department of Environmental Quality continues to work with the city to monitor water quality.

- **Only if asked:**
    - If asked about the accusations of racism, we should push back hard.
        - These are water infrastructure problems that have been growing in Flint for decades.
        - The change from Detroit water to water from Lake Huron via a new pipeline was a plan created by and supported by the Flint City Council and the mayor. The emergency manager at the time signed off on the plan at the urging of the council and mayor.
        - State leaders have worked with the city to help through its financial struggles to improve public safety, services and the overall quality of life.

Background

- The administration is looking into a variety of options that could improve the color and smell of the water while continuing to explain that the water is safe, and that Flint's water infrastructure needs significant upgrades for a long-term solution.
    - Options include working with area foundations and businesses to purchase filters to be attached to kitchen sinks that would improve water color and smell.
    - Another option would be to make bottled water available to affected residents.

- Flint's water issues are an infrastructure issue.
    - The system is 80 years old, and has not been adequately maintained for about 40 years.
    - The temporary water source – the Flint River – has harder water than the previous source, which was the Detroit Water and Sewer District.
        - The harder water exacerbates the problems in the aging water pipes, and residents have reported an increase in problems since the April switch from Detroit water to Flint River water.
    - The city is in the process of building a new pipeline to link with Lake Huron.
        - The work will take a year or more to complete.
        - Even when linked to Lake Huron, problems with the city pipes will remain.
    - Replacing the pipes costs about $1 million per mile.
        - The city hopes to spend about $8 million in water infrastructure repairs.

- Community leaders have demanded the city return to Detroit water.
    - This would not solve the on-going infrastructure issues.
    - DWSD would charge about $1 million a month to hook up Flint again.
        - The city can't afford this.
        - The additional cost would be passed along to ratepayers.
            - Residents already are paying a lot for their water, about $150 a month.

How can the state assist?

- The DEQ Drinking Water program works with communities around the state to ensure that municipalities provide customers with clean, safe drinking water.
    - Municipal water supplies are tested rigorously and regularly for more than 90 regulated contaminants, including microbial contaminants that pose an immediate public health concern.

- Gov. Snyder has awarded Flint $2 million in grants for water system infrastructure improvements, part of an overall $8 million plan to help cities through the Financially Distressed Cities, Villages, and Townships Grant Program.

- Flint is among 11 municipalities receiving grants through the program.
    - Municipalities are eligible for the grants of they are experiencing one or more conditions indicative of "probable financial stress," as defined by Public Act 436 of 2012, the Local Financial Stability and Choice Act.
    - Under the grant program, funding may be used to pay for specific projects, services, or strategies that move a city, village, or township toward financial stability.
    - There was $8 million appropriated for the program with a $2 million cap, per local unit.

- A $900,000 grant will allow the city to hire a contractor to perform a leak detection survey of the city water lines.
    - The city will receive a map of leak locations and an assessment of leak severity, allowing the city to prioritize leak repair.
    - The project also covers the expense of conducting a water pipe line wall thickness condition assessment on a portion of the city's pipes.

- The assessment will guide the city's water main replacement program.

- The city also was awarded $1.1 million to shut down its current Water Pollution Control Facility incinerator and replace it with new facilities which will allow for the disposal of waste in landfills.
  - The existing facilities are not up to federal Environmental Protection Agency standards.

- Dennis Muchmore and representatives from Treasury, DEQ and The Office of Urban Initiatives met with a delegation of concerned pastors to discuss the problem in early February.

From: Wurfel, Brad (DEQ)
Sent: Wednesday, March 11, 2015 12:39 PM
To: Wurfel, Sara (GOV)
Cc: Murray, David (GOV)
Subject: RE: PIO report

Flint: They're technically still in violation of the total trihalomethane rule this quarter. All tested water in February was well below the standard, but the standard is calculated based on an average that includes the previous three quarters, and the fall 2014 results were mighty high. That'll be in the rearview with the next round of testing late spring.

In terms of next steps, not sure if you mean next steps for the city or Team RS. The city has spent tens of thousands hiring water specialists to advise them formally of what they already know and already were told by the DEQ: If you do no maintenance on your drinking water system for 40 years, it eventually begins to fail in ways big and small. However, they've gotten some positive press for hiring shiny, fancy out of state people who purport to specialize in river-based water supply challenges, so there's that.

We've encouraged them to develop a triage list of maintenance areas – which pieces of this 500-mile system are in greatest need right now, this year and next year? Once they've got that, the next step will be figuring out how to pay for it without causing another rate increase. Honestly, the big squall in Flint (and I heard Jerry Ambrose say it early this week) comes down to the fact that folks are paying approximately double what they should for water. There's no way to adjust that in the near term, but if team RS wants to truly help, treasury could look for some funding to assist with emergency maintenance projects this spring.

Team RS continues looking at some immediate term gestures, including dropping off bottled water or filters to homes that say they've got discolored or stinky water. If someone asked me what I think is the best possible 'thing' we could do to be seen helping Flint, it's this: Treasury gave them $2 million a couple months ago. $900,000 of that was to do system-wide assessment. That project is underway. When they get results, it'll include the list of hotspots in their system that are most in need of immediate address.
They need to do some maintenance work, like scrubbing the mung out of their pipes in some areas. THAT will reduce the discolored / odorific water. If there's a way to have the state support that work, it'd be huge help.

Aquaculture: It'll be a big story at some point, but right now we're just trying to make sure the public hears about it from us first, and that they understand we're setting the bar high.

From: Wurfel, Sara (GOV)
Sent: Tuesday, March 10, 2015 5:19 PM
To: Wurfel, Brad (DEQ)
Cc: Murray, David (GOV)
Subject: RE: PIO report

Very helpful summary. Thanks much.

Few quick Qs:

Where do we stand on Flint water and next steps?

Please do keep us posted on net pen aquaculture as noted and before anything goes out publicly.

Can you share highlights/one-pager on fracking rule changes?

From: Wurfel, Brad (DEQ)
Sent: Tuesday, March 10, 2015 12:06 PM
To: Murray, David (GOV); Agen, Jarrod (GOV); Wurfel, Sara (GOV)
Cc: Holton, Jennifer (MDA); Golder, Edward (DNR); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Tommasulo, Karen (DEQ)
Subject: PIO report

Sorry I missed the meeting. Had a couple conflicts. Here's what I want to share with you:

Not Responsive

3. **Flint Water:** had a meeting yesterday with a company Baird put in the room to discuss their ozone technology. It was a good conversation but a non-starter for several reasons (Flint already has an Ozone system to modify its water, this company hasn't had its system certified for use on public drinking water supplies, and the problem they propose to address is not at the water plant but throughout various sections of the distribution system). More broadly, Harvey is looking for a 'thing' the state can be doing for Flint that will position SOM / RS positively. Suggestions range from handing out home water filters (think Britta faucet mount) to passing out jugs of water. After consulting with our experts in the Drinking water program, what we've really come to at DEQ is that if there's funding from treasury (or some charitable donor foundation), the best short-term use of dollars would probably be to hire a company to 'pig' the lines in the distribution system. This is a routine maintenance activity in municipal systems that involves an in-line device under pressure that clears funk out of the lines. **The good news on Flint**: Flint EM Jerry Ambrose noted yesterday that the city has some work to do on its system in the weeks ahead; the TTHM issue is quickly going away; the 'brown water' folks are loud but really few in number; the consultants are doing their work to make suggestions to help the city prioritize its needs; and, broadly, nobody seems to be targeting the administration recently.

Not Responsive

Not Responsive

Not Responsive

b

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713
PPI cell

From: Wurfel, Brad (DEQ)
Sent: Friday, March 13, 2015 4:02 PM
To: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: READ THIS PLEASE
Attachments: FOIA Request Flint Water.doc

Political flank cover out of City of Flint today regarding the spike in Legionnaires cases. See enclosed. Also, area ministers put a shot over the bow last night in MIRS with a call for Snyder to declare state of emergency there and somehow 'fix' the water situation.

It may be very advantageous to get Treasury, Gov's office, DCH, DEQ and Flint EM around a table Monday to do the following:

1. Update on what the City is doing.
2. Update on what County Health department is working on.
3. Discussion of what we might all do next.
4. Coordination of communication / messages.

Did not want to reach out to Dennis without your approval / support. Please advise.
b

From: Busch, Stephen (DEQ)
Sent: Friday, March 13, 2015 3:47 PM
To: jhenry@gchd.us
Cc: Prysby, Mike (DEQ); Shekter Smith, Liane (DEQ)
Subject: RE: Information Request and Documentation

Mr. Henry,

The January 27, 2015, FOIA request you provided was directed to the City of Flint, not the DEQ. The DEQ has no record of a FOIA request from your office for such information. It is our understanding that the City has responded to your FOIA request, has helped you adequately redefine your request within the City's scope of public record to address such ambiguities as "any additional areas of concern", and provided you with additional information beyond the scope of your request.

The DEQ fully recognizes the public health threat posed to individuals that contract Legionnaires' Disease with the understanding that the disease is not contracted by ingestion of potable water and therefore not regulated under the federal Safe Drinking Water Act. Your email below claims that you have explicitly explained the situation to our Department. However, since contacting our office early last October to indicate a rise in cases, we have not received any further information regarding your epidemiological investigation into this matter.

Further, conclusions that legionella is coming from the public water system without the presentation of any substantiating evidence from your epidemiologic investigation appears premature and prejudice toward that end.

It is highly unlikely that legionella would be present in treated water coming from the City of Flint water treatment plant given the treatment plant's use of ozone along with complete treatment and chlorine disinfect contact time to comply with federal surface water treatment rules for potable water. Detections of total coliform or heterotrophic bacteria in the City's public water distribution system indicate an environment where bacterial growth may be

supported. However, there is no direct correlation that can be made to the presence of legionella. While total organic carbon levels in potable water may serve as a food source for bacteria growth in private plumbing system, water temperatures in the City's distribution system are below legionella growth range, and chlorine residual levels would also limit such growth.

Our office agrees that water main breaks, water leaks, and system repairs are possible vectors for legionella to enter the public water system. These should be investigated as part of your epidemiology. DEQ staff can be made available to assist GCHD and the City regarding such matters, but to date no request by GCHD for any such meeting has been received, let alone declined as alleged in your email.

If GCHD is seeking assistance to complete its epidemiological investigation regarding this matter, such resource requests should be directed to the Michigan Department of Community Health. Our Office agrees that a multi-agency partnership would be beneficial to move forward and develop a unified response. In that respect, if our Office can be of any further assistance you may contact me directly.

Stephen Busch, P.E.
Lansing and Jackson District Supervisor
Office of Drinking Water and Municipal Assistance
MDEQ
517-643-2314

From: "Henry, James" <jhenry@gchd.us>
Date: March 10, 2015 at 6:40:17 PM EDT
To: Howard Croft <hcroft@cityofflint.com>, "Mike Prysby (DEQ)" <prysbym@michigan.gov>, Elizabeth Murphy <emurphy@cityofflint.com>, "Natasha Henderson" <nhenderson@cityofflint.com>, Jerry Ambrose <gambrose49@gmail.com>, Dayne Walling <dwalling@cityofflint.com>
Cc: "Valacak, Mark" <MVALACAK@gchd.us>, "Cupal, Suzanne" <scupal@gchd.us>, "Hasan, Shurooq" <shasan@gchd.us>, "Childs, Bonnie" <BCHILDS@gchd.us>, "Hallwood, Dawn" <dhallwood@gchd.us>, "Johnson, M.D., Gary" <GJOHNSON@gchd.us>
Subject: Information Request and Documentation

Hello everyone,

The Genesee County Health Department has made several written and verbal requests for specific information since October, 2014, including a Freedom of Information Act Request on January 27, 2015. The information still has not been received and the city's lack of cooperation continues to prevent my office from performing our responsibilities.

The Genesee County Health Department has the responsibility to conduct illness investigations and consider all potential sources, this is not optional. In 2014, Genesee County experienced a significant increase of confirmed Legionella illnesses relative to previous years. Legionella can be a deadly, waterborne disease that typically affects the respiratory system.

The increase of the illnesses closely corresponds with the timeframe of the switch to Flint River water. The majority of the cases reside or have an association with the city. Also, McLaren Hospital identified and mitigated Legionella in their water system. This is rather glaring information and it needs to be looked into now, prior to the warmer summer months when Legionella is at its peak and we are potentially faced with a crisis.

This situation has been explicitly explained to MDEQ and many of the city's officials. I want to make sure, in writing that there are no misunderstandings regarding this significant and urgent public health issue. The Trihalomethane issues "pale in comparison" to the potential public health risks of Legionella.

I am submitting the attached FOIA request again and requesting that the legal obligations of the request are met. If the information is not available, please let me know. In the past, I have requested to meet with the water plant staff and MDEQ regarding Legionella concerns. I did not receive a response from the water plant staff and MDEQ declined. I think it is in the best interest for all stakeholders that we meet and discuss the issues.

Respectfully,

Jim

Jim Henry
Jim Henry RS, MBA
Environmental Health Supervisor
Genesee County Health Department www.gchd.us
630 S. Saginaw St., Suite 4
Flint, MI 48502-1540
Phone (810) 257-3618 Fax (810) 257-3125
E-mail jhenry@gchd.us

Genesee County Health Department

Mark Valacak, M.P.H., Health Officer
Gary K. Johnson, M.D., M.P.H., Medical Director

January 27, 2015

FOIA Coordinator, City of Flint
1101 S. Saginaw Street, 3rd floor
Flint, MI 48502

RE: Flint Water Plant Information Request

Dear FOIA Coordinator,

Under provisions of the Michigan Freedom of Information Act (MCLA 15.231 et seq; MSA 4.1801 (1) et seq) please provide copies of the following:

Provide specific water testing locations and laboratory results within the City of Flint public water system for Coliform, E-coli, Heterotrophic Bacteria and Trihalomethanes from January 1, 2010 to January 27, 2015. Provide any additional water testing that has been conducted for identifying potential public health risks. Include any available mapping of the water testing areas.

Provide a map delineating the boundaries of the City of Flint water distribution system. Include any changes to the boundaries, along with corresponding dates from January 1, 2014 to January 27, 2015.

Provide a map or list of locations, detailing dead ends, pooling, low pressure and any additional areas of concern within the City of Flint water distribution system. Include any modifications to the water distribution system addressing concerns, along with corresponding dates from January 1, 2014 to January 27, 2015.

If you determine that any of the requested information is exempt from disclosure, please detail what is being withheld and cite the exemption under FOIA. I anticipate the request being filled within five working days of receipt of this letter, as provided under FOIA. Please contact me at (810) 257-3618 if there are fees associated to comply with this request.

Sincerely,

Jim Henry

Jim Henry
Environmental Health Supervisor
Genesee County Health Department
630 S. Saginaw Street
Flint, MI 48502

From: Wurfel, Brad (DEQ)
Sent: Friday, March 13, 2015 6:51 PM
To: Wurfel, Sara (GOV)
Subject: FW: FYI in MIRS

FYI

From: Wurfel, Brad (DEQ)
Sent: Friday, March 13, 2015 6:16 PM
To: Hollins, Harvey (GOV)
Subject: FW: FYI in MIRS

This was in last night.

Detroit Preachers To Call For Snyder's Intervention In Water Crisis

The Change Agent Consortium and Preachers of Detroit will collect bottled water for Flint residents at 7 p.m. Friday in Detroit and plan to call for action from of Gov. Rick **SNYDER.**

David Alexander **BULLOCK**, the Change Agent Consortium national spokesperson, said in a statement that the situation in Flint demands immediate state action.

"We call on Governor Snyder to declare a state of emergency in Flint. He should ensure all citizens have access to clean water, institute a moratorium on water bills until the water source is safe and reverse the bad public policy decision of the emergency manager to use a contaminated water source in Flint," Bullock said in the statement.

The Friday water collection event will take place at Tony V's Tavern, 5756 Cass Ave., in Detroit.

Sent from my iPhone

From: Wurfel, Brad (DEQ)
Sent: Monday, August 24, 2015 1:27 PM
To: Hollins, Harvey (GOV); Muchmore, Dennis (GOV)
Cc: Murray, David (GOV); Wurfel, Sara (GOV); Brown, Jessica (GOV)
Subject: FW: LeeAnn Walters Draft

Just a heads up, our Drinking Water Staff closing the loop with one of the participants from the meeting with the Flint Ministers regarding water quality issues in Flint. Some very worthwhile information here, and a heads up to everyone that this letter will be going to this individual. Let me know if you have further questions, concerns, or other issues. Thanks!
b

From: Shekter Smith, Liane (DEQ)
Sent: Monday, August 24, 2015 10:37 AM
To: Wurfel, Brad (DEQ)
Cc: Devereaux, Tracy Jo (DEQ); Busch, Stephen (DEQ); Benzie, Richard (DEQ); Sygo, Jim (DEQ); Shaler, Karen (DEQ)
Subject: RE: LeeAnn Walters Draft

Brad – below is our draft response to Ms. Walters in followup to our meeting at the Governor's Office. Thought you might like to review the draft before we send it out. Also, is there anyone else that should see this before it is sent?

Dear Ms. Walters,

I wanted to update you regarding our Department's findings related to questions raised during our meeting at the Governor's office on August 4. I apologize for the delay in getting back to you.

Lead and Copper Monitoring

Regarding Flint lead and copper compliance monitoring for the January – June 2015 period, the City has confirmed that all lead and copper samples collected throughout the City, whether routine sites or customer requests, were sent to the State of Michigan lab for analysis. Individual sample results are provided to the property owner within 30 days of receiving the lab results in accordance with the Michigan Safe Drinking Water Act (Public Act 399, 1976 Administrative Rule 410(5). Results from the State of Michigan lab are provided directly to our Office.

Staff have confirmed that the lead 90th percentile compliance calculation of 11 parts per billion is based on 69 samples that met the appropriate sampling location site criteria, and met the sample collection site and collection protocol requirements of the Safe Drinking Water Act for this monitoring period. A minimum of 60 samples were required for this monitoring period. As indicated during the meeting, the City's sampling for lead complies with the Action Level standard of 15 parts per billion, but based on the population served by the City and these results, the City will need to make a recommendation to the MDEQ on how they will fully optimize their corrosion control treatment. These next steps continue to follow the requirements of the Lead and Copper Rule.

Samples collected at your residence of PPI were not included this compliance determination as you utilize a whole home filter. As stated in the Michigan Safe Drinking Water Act (Public Act 399, 1976 Administrative Rule 710a, Lead and Copper in tap water; monitoring requirements) "Sampling sites may not include faucets that have point of use or point of entry treatment devices designed to remove inorganic contaminants." Such treatment alters the water chemistry and water quality such that it is no longer representative of public water from the City's distribution

system. Therefore, the City cannot use samples collected at your residence as part of its determination for public water system compliance with the lead or copper action level standard.

Sample Summary (samples taken at your residence)

For your information, we are providing the information that we've gathered regarding samples collected at your home. Our records indicate between February and June of this year there were six samples collected by either you or Mr. Mike Glasgow with the City of Flint, and submitted to the State Laboratory for analysis as follows:

February 11, Bathroom tap, collected at 10:20 AM by Mike Glasgow. This sample was analyzed for aesthetic metals (copper, iron, manganese, and zinc) which does not include lead analysis.

February 18, Kitchen tap, collected at 7:15 AM by you. This sample was analyzed for lead (104 parts per billion) and copper (non-detect).

February 25, Kitchen tap, collected at 10:26 AM by Mike Glasgow. This sample was analyzed for metals including lead. All results (including lead) were non-detect except for Barium 0.01 parts per million. The result for Barium was well below its maximum contaminant level of 2 parts per million.

March 3, Kitchen tap, collected at 6:00 AM by you. This sample was analyzed for lead (397 parts per billion) and copper (non-detect).

March 18, Kitchen tap, collected at 11:10 AM by Mike Glasgow. This sample was analyzed for lead (4 parts per billion) and copper (non-detect).

April 2, Pre-point of service, collected at 8:00 AM by you. This sample was analyzed for lead (707 parts per billion) and copper (110 parts per billion).

Lead Education/Outreach

As we discussed during the meeting, we support efforts to educate homeowners about the sources of lead in their private residence, provide guidance measures to reduce the potential for lead exposure, and provide information on resources for lead abatement. Along those lines, our Office has been in contact with the Department of Health and Human Services, Environmental Health Division, Healthy Homes Section and had some preliminary discussions about a public education and assistance campaign regarding household lead issues, guidance and abatement.

Lead monitoring by public water systems serves a dual purpose. The first purpose is to ensure the public water supply is adequately treating its water to address corrosion potential and help limit lead exposure. The second purpose is to inform homeowners about lead levels within their individual residence so that they can make educated choices regarding their own exposure risk.

pH Results

During the meeting concerns were also expressed regarding pH levels within customer plumbing systems. As you may know, pH has no associated contaminant level as it is simply a numeric scale used to specify the acidity or alkalinity of a solution. The City of Flint conducts daily monitoring of pH values on both its raw and finished (treated) water at the City's water treatment plant as part of its operations. The City is also required to conduct water quality parameter monitoring in the distribution system, which includes pH. Samples are analyzed in accordance with Standard Methods using properly calibrated analytical equipment. Results for pH from these samples are summarized below.

Since late April 2014 – June 2015, the following pH conditions were reported:

Water Treatment Plant – Finished Water plant tap pH range = 7.07 minimum to 9.9 maximum, overall average 7.7, measured daily. We believe the 9.9 is a one- time anomaly from softening treatment.

Distribution System – Water Quality Parameters taken from 25 sample sites located throughout and monitored quarterly
July – Sept. 2014: pH 7.71 average, range 7.56 – 7.86
Oct. – Dec. 2014: pH 7.88 average, range 7.62 – 8.10
Jan. – March 2015: pH 7.81 average, range 7.60 – 7.99
April – June 2015: pH 7.63 Average, range 7.48 – 7.80

In addition, the City's treated water contains alkalinity, which is a measurement of the buffering capacity of water to resist a change in pH. As you can see from the water quality parameter monitoring results above there has been very little change in pH within the City's distribution system. The pH levels described within customer site piping or premise plumbing systems are believed to be the result of onsite treatment and not representative of water quality shown to be occuring in the public water supply system.

Consumer Confidence Report

Finally, there was confusion during the meeting regarding the City's annual water quality report, the Consumer Confidence Report which we have since been able to clarify.

The City of Flint issued two separate Consumer Confidence Reports (CCR's) in 2015 covering the water quality data from 2014. One report was for the period of January – April 2014 when the City was obtaining water from Detroit (DWSD). And a second report was for the period April – December 2014 when the City was using the Flint River and its own Water Treatment Plant.

The CCR for DWSD water was mailed to customers in June. The Flint River based CCR was mailed to customers in mid-July, delayed due to issues with the printing contractor. We agree that having two separate reports caused confusion. We are working with the City to ensure both reports are posted to the City's website and both are made available when requested by customers. Should the City choose to create separate CCR's during the year that the City of Flint connects to the Karegnondi Water Authority we will work with the City to provide more clarity and try to have all material included in a single mailing.

The DWSD based CCR is the one community members had at the meeting, while the DEQ brought a copy of the Flint River based CCR. As separate and distinct sampling was done under each source, this explains the discrepancy in the values and monitoring periods being reported in the respective CCR's.

We appreciate your interest in these matters and hope this has addressed many of the questions brought up during our meeting. I would like to provide this information to both Dr. Sullivan and Ms. Mayes, but I do not have their contact information. I'm hoping you can share this with them and any others that may be interested.

Sincerely,

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Thursday, September 03, 2015 11:27 AM
Subject: PRESS RELEASE: MDEQ Testing of City of Flint Water Shows TTHM Levels are Well Below the Required Action Level, City No Longer in Violation
Attachments: Water Quality Update 9.2015.pdf

For Immediate Release

MDEQ Testing of City of Flint Water Shows TTHM Levels are Well Below the Required Action Level, City No Longer in Violation

Flint, Michigan – September 3, 2015 – The City of Flint has made significant improvements to its water treatment process and distribution system. Annual average results show all locations are within acceptable limits for total trihalomethanes (TTHM) and work continues to ensure that the average stays below the acceptable level. Flint's TTHM levels have now been below the actionable level for four consecutive quarters, long enough to bring the City out of violation with the Safe Water Drinking Act.

Installation of the Granulated Activated Carbon filter mediums in July has had a significant impact on the reduction of total organic carbon (TOC) and is expected to continue to do so. TOC contact with chlorine can lead to the creation of the chemical byproduct trihalomethanes. By reducing the amount of TOC in the treated water, the amount of TTHM in the water fell as a direct result.

"The City of Flint is continuing to improve its water system including both the areas of treatment and distribution," said Mayor Dayne Walling. "As the issue of trihalomethanes comes under control and the City is no longer in violation of safety standards, it will work with the MDEQ on implementing water optimization measures to reduce the corrosive effects of water on older pipes and home service lines." Older pipes and service lines can contain lead solder which can leach into the water over time.

Flint has been looking at the water optimization option for some time and is now looking at taking accelerated steps toward implementation. According to the MDEQ, a typical water optimization plan can take up to five years to complete, as in the case of the Detroit Water and Sewerage Department. The City of Flint plans to have its water optimization measures in place by the beginning of 2016. This measure, combined with the ongoing

improvements to the distribution system wherever possible, will improve water quality and extend the performance of the City's aging infrastructure.

"The City of Flint has been in constant communication with the MDEQ in our continuing efforts to upgrade and improve our water system," said Director of Public Works Howard Croft. "We have received assurances from them that every step we have taken has been in line with their recommended actions. The City will continue to work to ensure safe, quality water to its residents, businesses and visitors."

The City of Flint will continue to provide updates on its water progress through its website, cityofflint.com. Anyone with water issues is encouraged to call 810-766-7202 so that they can be addressed. Residents wishing to receive a free and independent in-home water test can call 810-787-6537 or email flintwater@cityofflint.com.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI (Cell)
jlorenz@cityofflint.com

Dayne Walling
Mayor

Natasha L. Henderson
City Administrator

Jason Lorenz
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–CONTINUE–

Dayne Walling
Mayor

Natasha L. Henderson
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–END–

From: Muchmore, Dennis (GOV)
Sent: Thursday, September 03, 2015 5:49 PM
To: Hollins, Harvey (GOV); Wurfel, Sara (GOV); Workman, Wayne (TREASURY); Saxton, Thomas (Treasury)
Subject: FW: PRESS RELEASE: MDEQ Testing of City of Flint Water Shows TTHM Levels are Well Below the Required Action Level, City No Longer in Violation
Attachments: Water Quality Update 9.2015.pdf

Great news.

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–END–

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–CONTINUE–

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–END–

From: Wurfel, Brad (DEQ)
Sent: Thursday, September 10, 2015 3:13 PM
To: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: FW: Reporter seeking a response to Virgnia Tech's Flint Water Study findings

Importance: High

Need a phone call to discuss this with either of you.

Thanks.

b

From: Curt Guyette [mailto:cguyette@aclumich.org]
Sent: Thursday, September 10, 2015 2:41 PM
To: Wurfel, Brad (DEQ)
Subject: Reporter seeking a response to Virgnia Tech's Flint Water Study findings
Importance: High

Dear Mr. Wurfel,

After testing more than 250 homes in Flint, researchers at Virginia Tech have continued to find dangerously high levels of lead in many of the homes being sampled.

They are unequivocal in their findings, stating that: "Flint has a very serious lead in water problem."

These results run contrary to the city and MDEQ's assertions that the city of Flint is in compliance with U.S. EPA Lead and Copper Rule compliance standards. In fact, based on Virginia Tech's results – which are much more extensive, having tested nearly four times as many homes as the city tested during the first half of 2015, and the VT researchers have not specifically target high-risk homes, as the city is required to do for the LCR monitoring – the city is actually well out of compliance.

I was hoping you would be able to provide the MDEQ's position regarding VT researchers' purported findings, and the contradictory conclusions..

Virginia Tech's methodology and results have been posted on a web site dedicated to the project (flintwaterstudy.org/), so it is clear from their end how they have approached this project, and exactly what they've done, and what they've found.

It would be very helpful to have the MDEQ's views on all this for my upcoming story.

I am working on a deadline and would very much appreciate a response by the end of the day tomorrow, Sept. 11.

I appreciate any help you can provide in my reporting on this very important public health issue.

Sincerely,

Curt

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Monday, September 21, 2015 4:45 PM
Subject: City Administrator Statement Regarding Additional Water Testing
Attachments: CA Water Testing Statement 9.21.15.pdf

For Immediate Release

City Administrator Statement Regarding the Possibility of Additional Water Testing

Flint, Michigan – September 21, 2015 – The following is a statement from the City Administrator regarding the possibility of additional testing being conducted on Flint's water.

"The City of Flint has no problem with cooperating in additional testing. In fact, at this time we are already taking the steps necessary to improve Flint's water including a plan to add a corrosion inhibitor into the treatment process in addition to ongoing efforts to fix problems in the distribution system. The City also continues to offer free and independent testing so that all customers understand the water quality in their homes, including any problems with lead. Our focus has been and will continue to be to provide safe, quality water to our customers."

-Natasha L. Henderson

City Administrator, City of Flint

–END–

-Jason Lorenz
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-Natasha L. Henderson

City Administrator, City of Flint

–END–

From: Murray, David (GOV)
Sent: Thursday, September 24, 2015 2:22 PM
To: Wurfel, Sara (GOV); Hollins, Harvey (GOV); Muchmore, Dennis (GOV); Clement, Elizabeth (GOV)
Subject: FW: Flint Talking Points
Attachments: Flint Lead TP 092415.docx

From: Minicuci, Angela (DCH)
Sent: Thursday, September 24, 2015 2:21 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>
Cc: Eisner, Jennifer (DCH) <EisnerJ@michigan.gov>
Subject: Flint Talking Points

Hey Brad and Dave,

MDHHS talking points attached.

Thank you,

Angela Minicuci
Office of External Relations and Communications
Michigan Department of Health and Human Services
Office: (517) 241-2112
Mobile: PPI
minicucia@michigan.gov
www.michigan.gov/mdhhs

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Blood Lead Levels in Flint Talking Points
September 24, 2015

- The results of the Hurley Children's Hospital are under review by the Michigan Department of Health and Human Services.
- The analysis that Hurley conducted is different from the way MDHHS has analyzed data regarding blood lead levels in Flint.
- MDHHS is looking to see if we can replicate the results of the Hurley study to see how they achieved their results.

Differences in Analysis

- MDHHS data provides a much more robust picture of the entire blood lead levels for the Flint area, and specifically, accounts for data over the full course of the past five years.
- Looking at the past five years as a whole provides a much more accurate look at the seasonal trends of lead in the area.
- Seasonal exposure is higher in the summer for a variety of reasons including children playing outside in the soil, and when windows are open and lead paint is more likely to be in the air. This seasonal increase would be unrelated to the water system.
- Our data includes children from the entire city, including all medical facilities, rather than just Hurley, has a larger age group of children, and includes a much larger sample size.
- The MDHHS analysis looks specifically at the first elevated blood lead level for each child, which provides an accurate picture of when first exposure occurred.
- The Hurley data includes a smaller sample size, much more limited time period (January-September of 2013 and 2015 only), and a smaller age group of children.

WIC Children

- In homes with infants on WIC, if the household has documentation from an official source of unsanitary water supply issues, that family may be eligible to receive ready-to-feed formula. Families should contact WIC to see if they are eligible.
- Each household would have to be looked at on an individual basis.
- WIC cannot cover bottled water.

From: Kaffer, Nancy <nkaffer@freepress.com>
Sent: Thursday, September 24, 2015 3:38 PM
To: Wurfel, Sara (GOV)
Subject: Flint water

Importance: High

Hey Sara – comment on this elevated lead in the Flint water system? Specifically because the Flint EM is the one who made the decision to hook up to the Flint … the same Flint EM who is now DPS EM, correct?

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: White, Ed <EJWhite@ap.org>
Sent: Thursday, September 24, 2015 4:01 PM
To: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: Flint Water

Flint doctors from Hurley, etc., today are holding a news conference to urge Flint to stop using Flint River water ASAP because of alarming lead levels in kids. This is based on blood tests taken since January.

As you know, water quality has been a big issue in Flint, although officials, including DEQ, say lead levels are within limits. Now, doctors are speaking up and saying it's a public health crisis.

What is the governor's reaction? Should Flint stop using the water?

Thanks.

Ed White
AP
313-259-0650

The information contained in this communication is intended for the use of the designated recipients named above. If the reader of this communication is not the intended recipient, you are hereby notified that you have received this communication in error, and that any review, dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify The Associated Press immediately by telephone at +1-212-621-1898 and delete this email. Thank you.
[IP_US_DISC]

msk dccc60c6d2c3a6438f0cf467d9a4938

From: Murray, David (GOV)
Sent: Thursday, September 24, 2015 4:04 PM
To: White, Ed
Cc: Wurfel, Sara (GOV)
Subject: Re: Flint Water

Hi Ed,

Angela and Jennifer at DHHS and Brad Wurfel at DEQ are ready to take your call.

Dave

Sent from my iPad

On Sep 24, 2015, at 4:01 PM, White, Ed <EJWhite@ap.org> wrote:

> Flint doctors from Hurley, etc., today are holding a news conference to urge Flint to stop using Flint River water ASAP because of alarming lead levels in kids. This is based on blood tests taken since January.
>
> As you know, water quality has been a big issue in Flint, although officials, including DEQ, say lead levels are within limits. Now, doctors are speaking up and saying it's a public health crisis.
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> 313-259-0650

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[IP_US_DISC]

msk dccc60c6d2c3a6438f0cf467d9a4938

From: LaHaie, Alyssa (GOV)
Sent: Thursday, September 24, 2015 4:22 PM
To: Wurfel, Sara (GOV)
Subject: PHONE MESSAGE: Nina Sika WNEM TV 5

Name: Nina Sika
Outlet: WNEM TV 5
Topic: Hoping to talk to you about the Hurley Medical Center press conference that just took place regarding Flint Water to see if the Governor had heard about it and had any reactions or thoughts.
Phone: 989-758-2044
Email: nina.sika@wnem.com
Deadline: By 11pm this evening

From: Murray, David (GOV)
Sent: Thursday, September 24, 2015 4:29 PM
To: Wurfel, Sara (GOV)
Subject: RE: PHONE MESSAGE: Nina Sika WNEM TV 5

Got it!

From: Wurfel, Sara (GOV)
Sent: Thursday, September 24, 2015 4:27 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Fwd: PHONE MESSAGE: Nina Sika WNEM TV 5

Sent from my iPhone

Begin forwarded message:

> **From:** "LaHaie, Alyssa (GOV)" <LaHaieA@michigan.gov>
> **Date:** September 24, 2015 at 4:21:30 PM EDT
> **To:** "Wurfel, Sara (GOV)" <WurfelS@michigan.gov>
> **Subject: PHONE MESSAGE: Nina Sika WNEM TV 5**
>
> Name: Nina Sika
> Outlet: WNEM TV 5
> Topic: Hoping to talk to you about the Hurley Medical Center press conference that just took place regarding Flint Water to see if the Governor had heard about it and had any reactions or thoughts.
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> Email: nina.sika@wnem.com
> Deadline: By 11pm this evening

From: Murray, David (GOV)
Sent: Thursday, September 24, 2015 4:47 PM
To: 'nina.sika@wnem.com'
Cc: Wurfel, Sara (GOV)
Subject: Flint water questions

Hello Nina,

The health and safety of our residents is always the first priority, and that includes ensuring clean, safe drinking water, especially for children. The state continues to work with Flint leaders on their water questions, including through Mayor Walling's technical advisory board. That board includes outside experts and studies data and offers recommendations. The Department of Environmental Quality and the Department of Health and Human Services also are testing water and working with Flint residents on issues related to what they can do if they have concerns about the pipes in their homes.

Angela at DHHS -- 517-373-0860 -- and Brad Wurfel at DEQ -- 517- 230-8006 -- are standing by with detailed responses about various aspects of the Hurley report.

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

From: Murray, David (GOV)
Sent: Thursday, September 24, 2015 5:12 PM
To: Wurfel, Sara (GOV); Wurfel, Brad (DEQ)
Subject: Absolutely astounding editorial by Flint Journal

This is just – irresponsible.

http://www.mlive.com/opinion/flint/index.ssf/2015/09/abandon_flint_river_for_drinki.html#incart_river_home

This switch was made while Flint was under control of a state-appointed emergency manager, **and we call upon the governor to make this right for Flint citizens by brokering a return to Detroit water that won't bankrupt the city of Flint.**

Flint is in a crisis that was created in no small part by Snyder's hand-picked emergency manager and it is Snyder's job to fix this mess.

Officials have said that returning to Detroit water for the short term is not fiscally sound but that is not enough to justify staying with Flint River water. Flint is in the midst of a full-blown water emergency right now and it is incomprehensible that a solution cannot be found with our fellow Michiganders to deliver healthy water.

There is a lake full of healthy drinking water just an hour away and the pipes already in place to bring it here.

Clean water can be ours again.

Make the switch — now — before it's too late.

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Thursday, September 24, 2015 5:18 PM
Subject: PRESS BRIEFING: Health Information for Residents on Water

PRESS BRIEFING: Health Information for Residents on Water will be shared with the press.

WHEN: Friday, September 25, 2015 at 10:00am

WHERE: Mayor's Office Conference Room

Details: City Administrator Natasha L. Henderson and Department of Public Works Director Howard Croft will be joined by officials from the Genesee County Health Department to share important health information for Flint residents on water.

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI (Cell)
jlorenz@cityofflint.com

From: Murray, David (GOV)
Sent: Thursday, September 24, 2015 5:20 PM
To: Wurfel, Sara (GOV); Wurfel, Brad (DEQ)
Subject: Freep editorial

Also calls for a switch, but doesn't tie the governor into the issue.

http://www.freep.com/story/opinion/editorials/2015/09/24/lead-poisoned-flint-kids-pay-price-water-switch/72741222/

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Friday, September 25, 2015 8:16 AM
To: Jason Lorenz
Subject: Re: PRESS BRIEFING: Health Information for Residents on Water

UPDATE: Flint Mayor Dayne Walling will also be in attendance for today's briefing.

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
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jlorenz@cityofflint.com

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(810) 237-2039 (Office)
PPI (Cell)
jlorenz@cityofflint.com

From: Stanton, Terry A. (Treasury)
Sent: Friday, September 25, 2015 9:02 AM
To: Wurfel, Sara (GOV)
Cc: Murray, David (GOV); Wurfel, Brad (DEQ); Minicuci, Angela (DCH)
Subject: Re: PRESS BRIEFING: Health Information for Residents on Water

FYI--This was on MLive earlier this week.

http://www.mlive.com/news/flint/index.ssf/2015/09/flint_will_issue_lead_advisory.html#incart_river

On Sep 25, 2015, at 8:54 AM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

> FYI
>
> Dave - please followup and see if we can get more on content, unless someone knows already.
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> **From:** Jason Lorenz <jlorenz@cityofflint.com>
> **Date:** September 25, 2015 at 8:15:46 AM EDT
> **To:** Jason Lorenz <jlorenz@cityofflint.com>
> **Subject: Re: PRESS BRIEFING: Health Information for Residents on Water**
>
> **UPDATE: Flint Mayor Dayne Walling will also be in attendance for today's briefing.**
>
> -Jason Lorenz
> Public Information Officer
> City of Flint
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> PPI (Cell)
> jlorenz@cityofflint.com
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> **PRESS BRIEFING: Health Information for Residents on Water will be shared with the press.**
>
> **WHEN: Friday, September 25, 2015 at 10:00am**

WHERE: Mayor's Office Conference Room

Details: City Administrator Natasha L. Henderson and Department of Public Works Director Howard Croft will be joined by officials from the Genesee County Health Department to share important health information for Flint residents on water.

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI (Cell)
jlorenz@cityofflint.com

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Friday, September 25, 2015 12:02 PM
Subject: PRESS RELEASE: City of Flint Lead Advisory
Attachments: GCHD Lead in Water Fact Sheet.pdf; Lead Advisory Release.pdf

For Immediate Release

City of Flint Issues Lead Advisory

Flint, Michigan – September 25, 2015 – The City of Flint is issuing a Lead Advisory for residents to be aware of lead levels in drinking water after hearing concerns from the medical community. While the City is in full compliance with the Federal Safe Drinking Water Act, this information is being shared as part of a public awareness campaign to ensure that everyone takes note that no level of lead is considered safe.

The Genesee County Health Department has issued a fact sheet regarding lead precautions for residents. The fact sheet can be found on their website at www.gchd.us. Here are a few of the suggestions the Health Department recommends:

- Flush your cold-water pipes by running the water for approximately 5 minutes
- Use only water from the cold-water tap for drinking, cooking, and especially for making baby formula.
- Install a water filter that is NSF-certified for lead removal.

Lead contamination can leach into water from a home's lead water service lines, lead solder, and leaded plumbing materials including fixtures, faucets, and fittings. Older service lines with pipes and fixtures installed before 1986 can sometimes be more susceptible to lead issues due to materials used in the home such as lead based paint and lead pipes.

This message is meant as a precaution to residents and does not mean that all homes in the City will experience the same issue. Residents with concerns about lead service lines and lead in home plumbing fixtures are encouraged to contact the City's Utilities Division to schedule a free water testing by calling the Water Treatment Plant at 810-787-6537 and pressing #1 after prompted or by emailing flintwater@cityofflint.com.

The City of Flint is working proactively along with the County Health Department, the Michigan Department of Environmental Quality, and the U.S. Environmental Protection Agency to improve the water system throughout the City. An accelerated plan to add a corrosion control agent to our water within 30 to 60 days with expedited approval from the Michigan Department of Environmental Quality is already underway. This will reduce corrosion which can cause lead in old pipes to leach into the water.

This plan is in addition to Mayor Walling's letter requesting $30 Million in water infrastructure assistance funding from the State of Michigan. $10 Million of that request would be for the replacement of lead service lines in households to ensure that lead no longer presents a danger to the drinking water of our residents. As the letter states, "It is the City's position that the abatement of lead through the removal of lead containing pipes and fixtures in homes is the best long term solution to keeping our residents' water safe."

Mayor Walling further stated: "I am extremely concerned about the risks around lead with Flint's children and I will be working tirelessly to ensure the water is safe and all of our families have the information they need. I also will continue to pursue funding for infrastructure improvements and a comprehensive healthy homes initiative that addresses lead in paint and pipes. We have to get the lead out of our community to eliminate the threat of childhood lead poisoning."

The City of Flint continues working proactively with the County Health Department, the Michigan Department of Environmental Quality, and the U.S. Environmental Protection Agency to improve the water system throughout the City. The City remains committed to working with all of our partners in the Water Technical Advisory Committee to address all issues of public health and quality concerns that face the community. Updates on progress made in addressing this issue will be made during regular public meetings including City Council and other scheduled meetings. Information on this and all related matters will continue to be posted on the City of Flint's website, cityofflint.com.

–END–

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Genesee County Health Department

Mark Valacak, M.P.H., Health Officer
Gary K. Johnson, M.D., M.P.H., Medical Director

How does lead get into my tap water?

Under typical circumstances, lead will dissolve into the water. The concentration of lead in drinking water can vary greatly, depending on the corrosiveness of the water, the type and age of the plumbing materials and the length of time that the water stands in the pipes. The highest levels of lead occur when very corrosive water stands motionless in lead or lead soldered pipe for long periods of time.

How do I know if my tap water is contaminated with lead?

The only way to know whether your tap water contains lead is to have it tested. You cannot see, taste, or smell lead in drinking water. There are different sampling methods for sampling lead in drinking water. To determine your household risk, it is recommended to take a first draw sample.

Does lead in my tap water cause health effects?

Lead can cause damage to the brain, red blood cells and kidneys. The greatest risk is to young children and pregnant women. Amounts of lead that won't hurt adults can slow down normal mental and physical development of growing bodies. Lead in water can be a special problem for infants, whose diets may be mostly liquids, such as baby formulas or concentrated juices mixed with water. Smaller bodies can absorb lead more rapidly than bigger ones. A child's mental and physical growth can be permanently harmed by too much lead. Risk will vary, depending on the individual, the circumstances, and the amount of water consumed.

What can I do to reduce or eliminate lead in my tap water?

Flush your cold-water pipes by running the water for approximately 5 minutes. The longer the water has been sitting in the pipes, the more lead it may contain. You can fill containers for later use, after the flushing process. Use only water from the cold-water tap for drinking, cooking, and especially for making baby formula. Hot water is likely to contain higher levels because it dissolves more lead.
You may choose to install a water filter that is NSF-certified for lead removal. If a water filter is installed, replace filters at least as often as recommended by the manufacturer.

Buy a lead-free faucet. The legal definition of "lead-free" still allows brass faucets to contain up to 8 percent lead. However, faucets marked with "NSF 61/9" and/or "California Proposition 65" meet stricter limits. Regularly clean particles from faucet aerators.

Is it safe to take a bath or shower, if my water has high lead levels?

Yes. Bathing and showering should be safe for you and your children, even if the water contains lead over EPA's action level. Human skin does not absorb lead in water. This information applies to most situations and to a large majority of the population, but individual circumstances may vary. Some situations, such as cases involving highly corrosive water, may require additional recommendations or more stringent actions.

Who do I contact for more information?

The local water authority is always your first source for testing and identifying lead contamination in your tap water. You can visit the City of Flint Website at www.cityofflint.com or contact the Flint Water Department at 810-787-6537.

WWW.EPA.GOV

WWW.MDEQ.GOV

Dayne Walling
Mayor

Natasha L. Henderson
City Administrator

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Sent: Friday, September 25, 2015 2:54 PM
To: Wurfel, Sara (GOV)
Subject: RE: Flint water

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Also, not clear what the Genesee Board of Commissioners has to do with it? They're a separate water customer and have continued to use DWSD while Karegnondi is under construction.

Our data analyst has been in contact with HHS. Story on that is forthcoming.

Nancy Kaffer
Columnist
Detroit Free Press
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@nancykaffer, @abettermi

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From: Wurfel, Sara (GOV) [mailto:WurfelS@michigan.gov]
Sent: Thursday, September 24, 2015 4:26 PM
To: Kaffer, Nancy <nkaffer@freepress.com>
Subject: Re: Flint water

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Not that any of that matters, Nancy.
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Highly recommend you reach out to state Health & Human Services team for how this data set was spliced and diced. That's key to understanding. They can walk through for you and Freep team.

Thanks much,
SW

Sent from my iPhone

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From: Kaffer, Nancy [nkaffer@freepress.com]
Sent: Friday, September 25, 2015 4:14 PM
To: Wurfel, Sara (GOV)
Subject: FW: Flint water

Deadline question for a column due today. :)

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Which, I should clarify, means by 5p.

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From: Murray, David (GOV)
Sent: Friday, September 25, 2015 4:28 PM
To: Wurfel, Sara (GOV)
Subject: RE: Flint water

Why the County Commission is involved:

http://wcrz.com/genesee-county-to-pay-flint-1-million-for-river-water-as-backup-source/

From: Wurfel, Sara (GOV)
Sent: Friday, September 25, 2015 4:22 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Fwd: Flint water

Calling you about this one …

Sent from my iPhone

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> **From:** "Kaffer, Nancy" <nkaffer@freepress.com>
> **Date:** September 25, 2015 at 4:14:19 PM EDT
> **To:** "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>
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From: Murray, David (GOV)
Sent: Friday, September 25, 2015 4:29 PM
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Potential answer for Nancy:

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Emergency managers often try to work closely with mayors and city councils, getting recommendations from the local communities they are serving. The decision to make the switch during the construction of the Karegnondi pipeline came after an 8-1 vote by the City Council and strong endorsement by the mayor and Genesee County leaders. The move also came after a series of upgrades to Flint's water treatment plant.

Answer on Darnell: On November 1, 2013 Earley will succeed Michael Brown as Flint's emergency financial manager.[3] Earley was appointed to be emergency manager for Detroit Public Schools on January 13, 2015

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From: Kaffer, Nancy <nkaffer@freepress.com>
Sent: Friday, September 25, 2015 5:10 PM
To: Wurfel, Sara (GOV)
Subject: RE: Flint water

Sara, that's just not true. News stories from the time the switch was made clearly show that Darnell Early was EM.

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> Sent: Friday, September 25, 2015 2:54 PM
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From: Kaffer, Nancy <nkaffer@freepress.com>
Sent: Friday, September 25, 2015 5:12 PM
To: Wurfel, Sara (GOV)
Subject: RE: Flint water

Please note this Flint Journal story, at which time a decision about where the city would get its water during the Karegnondi construction had not yet been made. Darnell was EM. Do you need me to send more? There is no shortage of documentation.

Flint Journal (Michigan)

January 5, 2014 Sunday
1 EDITION

City shells out $4 million on plant since Detroit ended water pact

LENGTH: 482 words

URL: http://www.mlive.com/news/flint/index.ssf/2014/01/flint_spends_4_million_on_wate.html
By Dominic Adams
dadams5@mlive.com
The city of Flint has spent $4 million on its water plant in the eight months since Detroit ended its almost 50-year-old contract for selling water to the city.
An analysis by The Flint Journal/MLive.com found the city has spent more than $3.8 million on improvements and other work at the water plant since April, according to figures listed in resolutions posted on the city's website.
Efforts have included paying consultants for studies, paying a public water fee to the Michigan Department of Environmental Quality and spending more than $1.5 million to upgrade the switchgear for the power distribution to the facility's motor control center.
The Detroit Water and Sewerage Department director said it will stop selling water to Flint and Genesee County on April 17.
The move came after Flint agreed to purchase raw water from Lake Huron as a member of the Karegnondi Water Authority. The water will be pumped to Flint and treated at its plant.
"Some of the money that we're spending are on upgrades that are necessary for when we start getting our water from the KWA," City Council President Scott Kincaid said. "There are guidelines as far as the quality of our water."
In July, city officials said they still were trying to figure out whether they would renegotiate a temporary deal with Detroit while the KWA pipeline was built.
Kincaid said a decision about where the city will get its water during the KWA construction hasn't been finalized.
"I'm not concerned that Detroit is going to cut our water off," he said. "We're preparing our water treatment facility for the KWA, and when we do that, of course, that will give us the capability to take water from the Flint River."
Here's a look at five expenditures associated with upgrades at the water plant:
Electrical Distribution Upgrades: Emergency Manager Darnell Earley approved paying McNaughton-McKay Electric $1.51 million to upgrade electrical switchgear at the water plant Nov. 18. On the same day, Earley signed off on paying McNaughton-McKay $505,000 to replace switchgear at the city's Cedar Street pumping station.
New pump: McNaughton-McKay also received $349,710 from the city to replace an obsolete pump at pump station No. 4, according to the resolution.
Design work and construction engineering to use the Flint River: The city spent $1.13 million with Flint-based Lockwood,

Andrews & Newnam Inc. on design work, construction engineering and regulatory submissions that will allow the plant to be used to convert raw water from Lake Huron delivered via the KWA pipeline into drinkable water in Flint.
Cleaning up lime: The city paid Young's Environmental Cleanup $6,154.61 to remove inactive lime at the water plant, according to a resolution from Aug. 13.
@fl-river flint city hall flint news is-featured

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Subject: RE: Flint water

Here's another story, about Darnell overseeing the process to get permission to pull water from the Flint River.

Flint Journal (Michigan)

April 6, 2014 Sunday
1 EDITION

Rushing to fix dump

LENGTH: 862 words

By Ron Fonger
rfonger1@mlive.com
After the state spent a dozen years trying to force Flint officials to clean up an unlicensed dump on Bray Road, the city is making a last-minute scramble to get that work done.
The reason? The city wants to use the same property in Genesee Township to dump sludge that will come when Flint makes the switch to the Flint River for the city's drinking water.
Flint and the Michigan Department of Environmental Quality have signed off on a consent order that requires the city to investigate and clean up what has been dumped at the 40-acre property. The requirement is a condition of using the site to dispose of lime sludge from the water treatment process.
The sludge is an unavoidable byproduct of softening river water before delivering it to homes and businesses, a move the city said it plans to make by the middle of this month.
"It is something the city has needed to take care of," said Jim Arduin, senior geologist in the DEQ's Office of Waste Management and Radiological Protection. "It's been on our radar for a long time -- at least 10 years."
The consent agreement for the Bray Road property, just north of Carpenter Road, and a series of letters dating to 1997 between the state and Flint officials were obtained by The Flint Journal/MLive.com through the Freedom of Information Act.
Flint Utilities Administrator Daughtery Johnson said the city hasn't used the property for sludge disposal since the 1960s but has dumped construction waste -- mostly broken concrete -- there.
Johnson said the city spent about $10,000 on an initial round of testing at the site to demonstrate the waste wasn't contaminated, but Flint wasn't able to meet all the DEQ's demands, including taking the solid waste to a licensed disposal facility.
He said the city's financial problems were the primary reason for past inaction.
Cost of compliance unclear
The 21-page consent agreement includes $2,500 in fines, in addition to the price of investigating and possibly moving or capping material at the dump.
City officials said it's not yet clear how much it will cost to comply with the consent order, but See dump, A12 dump they have few alternatives as they prepare to break away from buying water from the city of Detroit.
Without a place to send the lime sludge, Flint couldn't clean up its river water, and the Bray Road property already is connected to the treatment plant through miles of underground pipe.
The lagoon system on the property has two holding areas -- one to "dewater" the sludge and another from which the waste is pumped and treated with other sewage.
Arduin said little is known about the contents or volume of waste at the Bray Road property, leading to the consent order

requirement that the city determine what is in the open dump, remove or properly dispose of the waste on site and eliminate any surface water discharge to the Cornwell Drain.
The consent agreement said the lagoon system for handling lime sludge includes discharge points to the drain, and the property also includes an area where solid waste has been disposed of on the surface.
Arduin agreed that much of that waste appears to be asphalt and concrete -- byproducts of Flint's street maintenance and public works departments.
The consent order also requires the city to secure the property, which is at least partially bordered by a chain-link fence, plug the surface water discharge to Cornwell Drain, file a construction permit application for the lime sludge treatment, survey the property and report the extent of solid waste there, including any environmental contamination.
Worry for homeowners
The order clears the way for Flint to gain state approval of Flint River withdrawals and disposal of the waste -- and officials appear to be keenly focused on the work.
Just last week, the site, which had been quiet for decades, was busy again with trucks, heavy equipment and workers on the ground.
Neighbor James Lee said dumps in the area, near Bluebell Beach, are a gray cloud over homeowners -- as are plans to bring fresh sludge to the property.
"Nobody knows what was put in it before they shut it down," said Lee, who has lived on Bray Road for 25 years. "It is a constant worry."
Genesee County Drain Commissioner Jeff Wright, whose office oversees the Cornwell Drain, said he doesn't believe the property has an unmanageable environmental problem.
"I think what they are going to do is improve the situation," he said. "What they are doing is going to make the overall situation better."
The consent agreement comes as Flint officials play a game of beat the clock in disconnecting from the Detroit water supply and beginning to draw water from the Flint River instead.
Emergency Manager Darnell Earley said Friday he expects the city to have its permit allowing for river water withdrawals to start this week, and Arduin said that could not have happened without resolving the Bray Road dump issues.
Flint officials have said their plan is for people in the city to drink Flint River water until the Karegnondi Water Authority pipeline project is complete in 2016.
Genesee County and Flint have signed capacity agreements, committing to buy water from the KWA in the future.

LANGUAGE: ENGLISH

PUBLICATION-TYPE: Newspaper

JOURNAL-CODE: fjl

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Subject: RE: Flint water

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From: Michelle Zdrodowski <michelle.zdrodowski@detroitk12.org>
Sent: Friday, September 25, 2015 5:21 PM
To: Wurfel, Sara (GOV); Murray, David (GOV); Stanton, Terry A. (Treasury)
Cc: Darnell Earley; Chrystal Wilson
Subject: Free Press Request for Comment from DE on Flint Water-RESPONSE FOR REVIEW

Importance: High

Sara, Dave, Terry,

Mr. Earley got a request from Freep's Nancy Kaffer for a comment on the Flint Water situation. She is doing a column for Sunday's paper that is a follow up to the paper's story that ran yesterday on Flint water quality.

She asked for his comment, she said, since water system decisions were made under his term as EM.

The following is the statement that he would like to send to Nancy. Her deadline is, as always, rapidly approaching. Apologies for short turn-around time.

"The decision for Flint to join the Karegnondi Water Authority and to leave the Detroit Water and Sewerage System was made under the authority of previous Flint Emergency Managers prior to my appointment in October 2013. And, while the deal to sell the pipeline had been in process as I assumed my position, it was finalized after thorough review and with the health and well-being of all citizens -- from small children to senior citizens and everyone in between -- taken into consideration. An even bigger concern that we must all be paying attention to is the aging infrastructure and water distribution systems in all of our urban communities -- many of which are more than 100 years old. Where the focus should be placed moving forward is not on what we do in the interim between now and when the new system is complete, but what is done in the long-term to replace the crumbling water distribution system that exits throughout Flint and Genesee County. Iam confident that the city of Flint is following the standards of the State of Michigan's Department of Environmental Quality for safe water compliance, as it should."

Please let me know if you have any issues/edits.

Thanks,

Michelle

Michelle A. Zdrodowski
Executive Director of Communications
Detroit Public Schools
3011 W. Grand Boulevard, 14th Floor
Detroit, MI 48202
313.873.3238, office

PPI

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> From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
> Sent: Friday, September 25, 2015 5:09 PM
> To: Kaffer, Nancy <nkaffer@freepress.com>
> Subject: Re: Flint water
>
> Ed Kurtz was the EM at the time. Important to remember that the emergency manager had the final say - with ultimate sign off by Treasury-on making the change, but also did so at the strong urging of Flint city leaders. This was not a decision that was forced upon the city. Exact opposite actually.
>

> Emergency managers often try to work closely with mayors and city councils, getting recommendations from the local communities they are serving. The decision to make the switch during the construction of the Karegnondi pipeline came after an 8-1 vote by the City Council and strong endorsement by the mayor and Genesee County leaders. The move also came after a series of upgrades to Flint's water treatment plant, testing and an independent analysis of water rates and quality.
>
>
> Sent from my iPhone
>
>> On Sep 25, 2015, at 4:14 PM, Kaffer, Nancy <nkaffer@freepress.com> wrote:
>>
>> Deadline question for a column due today. :)
>>
>> _____
>> Nancy Kaffer
>> Columnist
>> Detroit Free Press
>> www.freep.com/abettermichigan
>> 313-222-6585
>> @nancykaffer, @abettermi
>>
>> -----Original Message-----
>> From: Kaffer, Nancy
>> Sent: Friday, September 25, 2015 2:54 PM
>> To: 'Wurfel, Sara (GOV)' <Wurfels@michigan.gov>
>> Subject: RE: Flint water
>>
>> Hi Sara - A little confused by your response. Not sure if Darnell Earley was EM when the decision was made to use Flint River -- It may have been Michael Brown? He was EM when the decision was made to join the KAregnondi Water Authority but I'm not sure about the decision to switch to Flint River water and stop using DWSD, but regardless, he's an EM appointed by the governor -- but I'm unclear why you guys would sign off on something as important about the integrity of an entire city's water supply if you had "severe reservations"? Any light you could shed on that would be much appreciated.
>>
>> Also, not clear what the Genesee Board of Commissioners has to do with it? They're a separate water customer and have continued to use DWSD while Karegnondi is under construction.
>>
>> Our data analyst has been in contact with HHS. Story on that is forthcoming.
>>
>> _____
>> Nancy Kaffer
>> Columnist
>> Detroit Free Press
>> www.freep.com/abettermichigan
>> 313-222-6585
>> @nancykaffer, @abettermi
>>
>> -----Original Message-----
>> From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
>> Sent: Thursday, September 24, 2015 4:26 PM
>> To: Kaffer, Nancy <nkaffer@freepress.com>
>> Subject: Re: Flint water

>>
>> Just so you know ... that's not accurate history, Nancy. This change was pushed and direct request of Genesee Co Board of Commissioners AND city council (7-1) and mayor at the time. We had severe reservations about switch but ultimately was nearly unanimous request from local local level that Treasury signed off on. (And FYI double checking, but nearly certain EM at time was not Darnell E.)
>>
>> Not that any of that matters, Nancy.
>> The bottom line is that we have been working hard to do everything possible to play a supportive role and work in collaborative fashion across all levels of government with community, faith & business leaders, residents, etc.
>>
>> Protecting public health is paramount and safe, clean, accessible drinking water is essential. That's what we solely focused on helping ensure.
>>
>> Highly recommend you reach out to state Health & Human Services team for how this data set was spliced and diced. That's key to understanding. They can walk through for you and Freep team.
>>
>> Thanks much,
>> SW
>>
>> Sent from my iPhone
>>
>> On Sep 24, 2015, at 3:37 PM, Kaffer, Nancy <nkaffer@freepress.com<mailto:nkaffer@freepress.com>> wrote:
>>
>> Hey Sara - comment on this elevated lead in the Flint water system? Specifically because the Flint EM is the one who made the decision to hook up to the Flint ... the same Flint EM who is now DPS EM, correct?
>>
>> _____
>> Nancy Kaffer
>> Columnist
>> Detroit Free Press
>> www.freep.com/abettermichigan<http://www.freep.com/abettermichigan>
>> 313-222-6585
>> @nancykaffer, @abettermi
>>

From: Bowling, Joe'L (GOV)
Sent: Monday, September 28, 2015 9:19 AM
To: Murray, David (GOV)
Cc: Biehl, Laura (GOV); Wurfel, Sara (GOV)
Subject: PHONE MESSAGE: Nick Lulli - (TV 5 News)

Name: Nick Lulli
Outlet: TV 5 News (WNEM)
Topic: Flint Water Situation
Email: nlulli@wnem.com
Phone: 989-254-9280
Deadline: 9/28 @ 5pm

Joe'L Bowling
Communications Intern
Executive Office of Gov. Rick Snyder
517-335-6397

From: Kaffer, Nancy <nkaffer@freepress.com>
Sent: Monday, September 28, 2015 11:46 AM
To: Wurfel, Sara (GOV)
Subject: RE: Flint

Can you give me some details of the things that you think are wrong? We always want to know about mistakes or errors.

Also, I asked you last week to comment on the situation – still interested in hearing what you are doing to respond to the water situation in Flint, which has resulted in an increasing number of children with elevated blood-lead levels. We're doing a follow-up, and would love to know what specifically the governor's office is doing.

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, September 28, 2015 11:26 AM
To: Kaffer, Nancy <nkaffer@freepress.com>
Subject: RE: Flint

I'm still in disbelief and simmering to be quite frank over that column, Nancy. That was fairly unbelievable - 'resounding yawn'? Seriously? You picked and chose facts and components to weave together a set narrative, leaving out so many critical pieces of all the state, Governor and administration have done to help the city and its residents in this situation.

There has been and there will be more that we're doing on this front – again do everything possible to play a supportive role and work in collaborative fashion across all levels of government, with the community, faith and business leaders, and residents. Protecting public health is paramount and safe, clean, accessible drinking water is essential. That's what we solely focused on helping ensure.

Back in touch later.
SW

From: Kaffer, Nancy [mailto:nkaffer@freepress.com]
Sent: Monday, September 28, 2015 11:14 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint

Any updates/changes on plans to handle the Flint water situation?

Nancy Kaffer

Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Angela Wittrock <AWittrock@senate.michigan.gov>
Sent: Monday, September 28, 2015 2:48 PM
To: Angela Wittrock
Subject: FOR IMMEDIATE RELEASE: Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

FOR IMMEDIATE RELEASE
September 28, 2015

Contact: Angela Wittrock
517.775.1430

Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

FLINT, Mich.—Senate Minority Leader Jim Ananich (D-Flint) issued the following statement:

"My constituents and I believe the state must act urgently to provide concrete solutions to the public health crisis in the City of Flint. In speaking with Governor Snyder and his key aides today, I stressed the need to work together on a number of initiatives that will ensure safe water for Flint residents.

"My formal request included immediate and long-term solutions, including strong consideration for switching back to the Detroit water source until the Karegnondi Pipeline Authority project is complete. Anything less than an aggressive, comprehensive approach is simply unacceptable."

A copy of Senator Ananich's letter to Governor Snyder can be viewed here.

###

Angela Wittrock
Press Secretary
Senate Minority Leader Jim Ananich
Boji Tower, Second Floor | Lansing, MI 48909-7536
P: 517.373.1339
C: PPI

Please sign up for our e-news at: Senatedems.com/Ananich
Facebook: jimananich | Twitter: @jimananich

From: Ronald Fonger <RFONGER1@mlive.com>
Sent: Monday, September 28, 2015 3:24 PM
To: Wurfel, Sara (GOV)
Subject: FW: seeking comment on ananich

Hi Sara. I've only got an hour so I'm sending this to you as well as Dave:
http://senatedems.com/ananich/wp-content/uploads/sites/3/2014/11/09.28.2015-letter-ananich-snyder-water-requests.pdf

---

From: Ronald Fonger
Sent: Monday, September 28, 2015 2:58 PM
To: Murray, David (GOV) (MurrayD1@michigan.gov)
Subject: seeking comment on ananich

Dave:
We just received this and understand the governor also spoke to Congressman Kildee today about the potential for state funding for lead clearing water filers.

As you see, Ananich is asking for strong consideration of switching back to the Detroit water source.

I'm interested in a comment from your office on these two suggestions, particularly the Detroit water switch since Ananich has put this in writing and a grass roots group that includes local pastors asked for the same thing in a news conference this morning.

Thanks,

Senate Minority Leader Jim Ananich (D-Flint) issued the following statement:

"My constituents and I believe the state must act urgently to provide concrete solutions to the public health crisis in the City of Flint. In speaking with Governor Snyder and his key aides today, I stressed the need to work together on a number of initiatives that will ensure safe water for Flint residents.

"My formal request included immediate and long-term solutions, including strong consideration for switching back to the Detroit water source until the Karegnondi Pipeline Authority project is complete. Anything less than an aggressive, comprehensive approach is simply unacceptable."

A copy of Senator Ananich's letter to Governor Snyder can be viewed here.

Ron Fonger
MLive Media Group

Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wyant, Dan (DEQ)
Sent: Monday, September 28, 2015 3:26 PM
To: Muchmore, Dennis (GOV)
Cc: Lyon, Nick (DCH); Hollins, Harvey (GOV); Wurfel, Sara (GOV); Lasher, Geralyn (DCH); Thelen, Mary Beth (DEQ)
Subject: Re: Proposed Press Conference on Flint Drinking Water

Great point. Thanks.

Sent from my iPhone

On Sep 28, 2015, at 2:27 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> Thank you, you're always ahead of us. I don't have any reservations about the PC, although as I mentioned I don't see any reason to have Mr. Sienko, as we have a top notch professional in Eden Wells and certainly Tim and Geralyn if need be.
>
> ---
>
> **From:** Wyant, Dan (DEQ)
> **Sent:** Monday, September 28, 2015 7:18 AM
> **To:** Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Lyon, Nick (DCH) <LyonN2@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
> **Cc:** Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Lasher, Geralyn (DCH) <lasherg@michigan.gov>; Thelen, Mary Beth (DEQ) <THELENM2@michigan.gov>
> **Subject:** Proposed Press Conference on Flint Drinking Water
>
> Per the ongoing issues in Flint concerning their drinking water, I would offer the following recommendations. Let's discuss.
>
> ## Recommendation
>
> Press Conference in Flint – Wednesday, Thursday or Friday.
>
> ## Participants
>
> Mayor of Flint
> Dan Wyant – Michigan Department of Environmental Quality
> Nick Lyon – Department of Community Health
> Susan Hedman – Region 5 Administrator or EPA
> Harvey Hollins – Governor's office
> Local Public Health Department
>
> ## Announcement
>
> Federal – State – Local action plan to address Flint Drinking Water
>
> 1. Governor Snyder names Dr. Dean Sienko as Flint drinking water Public Health Advisor.

2. All Flint schools water will immediately be tested to ensure that drinking water is safe.

3. Advisories will be disseminated recommending citizens flush your cold water pipes, use only water from the cold water tap for drinking, cooking and especially for making baby formula.

4. Implementation of fully optimized corrosion controls in the Flint drinking water system.

5. Expanded water testing of at risk properties.

6. Offer water testing at no cost to Flint residents to assure water is safe.

7. Convene a safe drinking water " Technical Review Advisory" to ensure best technology, practices and science is being utilized, including EPA's expertise and assistance from their Office of Research and Development.

8. Offer bottled water and premixed formula if test results indicate high levels of lead.

9. Accelerate water system improvements to address replacement of lead service lines.

Dan Wyant, Director
Department of Environmental Quality
517-284-6700 (New Number)

From: Murray, David (GOV)
Sent: Monday, September 28, 2015 4:22 PM
To: Wurfel, Sara (GOV)
Subject: Water responses

Shorter verision:

Hi Danielle,

Gov. Snyder spoke with Sen. Ananich this morning about how the state can continue working with Flint city leaders. We just received the letter from the senator and are reviewing his suggestions. We deeply share the senator's commitment to making sure all state residents have access to clean and safe water.

The governor and state agencies have been closely working with Flint leaders on their infrastructure challenges for months, including about providing $4.2 million in grants and restructured loan financing to provide resources needed to locate and fix infrastructure problems and add the carbon filtration system.

It's important that people have accurate information about their health and water. The Department of Environmental Quality and the Department of Health and Human Services are testing water and working with Flint residents on issues related to what they can do if they have concerns about the pipes in their homes.

Thanks!

Dave

Long version:

Hi Nick,

Gov. Snyder believes all state residents to have access to clean, safe water.

The governor and the state agencies have played a highly visible role in working with Flint city leaders with their infrastructure challenges -- and will continue to do so. We understand why people are frustrated, and also want to make sure people have accurate information and know where they can go if they have questions about their health and the water connections in their home. The health and safety of Flint residents is always the first priority, and that includes ensuring there is clean, safe drinking water -- especially for children.

The state so far has provided $4.2 million in grants and restructured financing to help the city locate and fix some of the problems with its water infrastructure and add the carbon filtration system. Several state agencies continue to work with Flint leaders on their water challenges including through Mayor Walling's technical advisory board. That board includes outside experts and members will study data and offer recommendations. The Department of Environmental Quality and the Department of Health and Human Services also are testing water and working with Flint residents on issues related to what they can do if they have concerns about the pipes in their homes.

It's important to remember that the emergency manager had the final say on making the change, but did so at the strong urging of Flint city leaders. This was not a decision that was forced upon the city. Emergency managers often try to work closely with mayors and city councils, getting recommendations from the local communities they are serving. The decision to make the switch during the construction of the Karegnondi pipeline came after an 8-1 vote by the City Council and strong endorsement by the mayor and Genesee County leaders. The move also came after a series of upgrades to Flint's water treatment plant.

It's also important to remember that switching back to Detroit water will not necessarily have the effect that some expect. Flint has long-term challenges with its water infrastructure that need to be addressed.
Dave

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI
Twitter:@michigandmurray

From: Kaffer, Nancy <nkaffer@freepress.com>
Sent: Monday, September 28, 2015 5:38 PM
To: Wurfel, Sara (GOV)
Cc: Henderson, Stephen
Subject: RE: Flint

Hi Sara,

Wanted to touch base again before leaving for the day. I'm writing on this again this week, and really would like to know a) if you guys now believe there is an issue with lead in the water, or are engaging in further testing/analysis to determine if lead is an issue, and b) what exactly you guys are doing to help get safe drinking water to Flint kids.

Best,

Nancy

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Kaffer, Nancy
Sent: Monday, September 28, 2015 11:46 AM
To: 'Wurfel, Sara (GOV)' <Wurfels@michigan.gov>
Subject: RE: Flint

Can you give me some details of the things that you think are wrong? We always want to know about mistakes or errors.

Also, I asked you last week to comment on the situation – still interested in hearing what you are doing to respond to the water situation in Flint, which has resulted in an increasing number of children with elevated blood-lead levels. We're doing a follow-up, and would love to know what specifically the governor's office is doing.

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, September 28, 2015 11:26 AM

To: Kaffer, Nancy <nkaffer@freepress.com>
Subject: RE: Flint

I'm still in disbelief and simmering to be quite frank over that column, Nancy. That was fairly unbelievable - 'resounding yawn'? Seriously? You picked and chose facts and components to weave together a set narrative, leaving out so many critical pieces of all the state, Governor and administration have done to help the city and its residents in this situation.

There has been and there will be more that we're doing on this front -- again do everything possible to play a supportive role and work in collaborative fashion across all levels of government, with the community, faith and business leaders, and residents. Protecting public health is paramount and safe, clean, accessible drinking water is essential. That's what we solely focused on helping ensure.

Back in touch later.
SW

From: Kaffer, Nancy [mailto:nkaffer@freepress.com]
Sent: Monday, September 28, 2015 11:14 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint

Any updates/changes on plans to handle the Flint water situation?

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Livengood, Chad <CLivengood@detroitnews.com>
Sent: Monday, September 28, 2015 5:55 PM
To: Wurfel, Sara (GOV)
Subject: RE: FOR IMMEDIATE RELEASE: Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

I understand Flint has lead in its older pipes and that's probably a likely source for these elevated lead levels. But I'm more interested in why was DWSD asking for $1.5 million more a month for a short-term two-year water contract from Flint? That's what seems to have caused Flint officials to pull out of DWSD early and start pumping water from the Flint River. Or am I missing something here?

Is there someone in the administration who was involved in this decision last year who I could speak with, even if just on background.

Chad Livengood
Capitol Reporter
The Detroit News
Lansing bureau: (517) 371-3660
Cell: PPI
clivengood@detroitnews.com
Twitter.com/ChadLivengood

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, September 28, 2015 5:00 PM
To: Livengood, Chad <CLivengood@detroitnews.com>
Subject: RE: FOR IMMEDIATE RELEASE: Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

HI there Chad –

Saw that you called, but am trapped on a conf call at the moment.

On this issue and your Qs would say:

Gov. Snyder spoke with Sen. Ananich this morning about how the state can continue working with Flint city leaders. We believe protecting public health is paramount and safe, clean, accessible drinking water is essential . That's what we are focused on helping ensure and deeply share the Senator's commitment to helping address the issue. We are reviewing his ideas.

The governor and state agencies have been closely working with Flint leaders on their infrastructure challenges for months, including providing $4.2 million in grants and restructured loan financing to provide resources needed to locate and fix infrastructure problems and add the carbon filtration system, additional testing and helping identify and provide filters.

We understand that residents are frustrated, and also want to make sure they have accurate information and know where they can go if they have questions about their health and the water connections in their home. The health and safety of Flint residents is always the first priority, and that includes ensuring there is clean, safe drinking water --

especially for children. The MI Depts of Environmental Quality and Health and Human Services are testing water and working with local agencies and Flint residents on issues related to what they can do if they have concerns about the pipes in their homes.

{On background: You probably recall the issues and challenges re: the history with DWSD. It's also important to note that switching back to Detroit water will not necessarily have the effect that some expect. Flint has long-term challenges with its water infrastructure that need to be addressed.}

Thanks and hope this helps.
SW

From: Livengood, Chad [mailto:CLivengood@detroitnews.com]
Sent: Monday, September 28, 2015 4:15 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: FW: FOR IMMEDIATE RELEASE: Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

Sara,
Got a deadline question here about Senator Ananich's letter to the governor. Does he support having the city switch back to Detroit water until the Karegnondi pipeline is complete? Is there a plan being put together by the administration to deal with these elevated levels of lead in Flint children found by researchers at Hurley Medical Center? Can your characterize the governor's conversation with Senator Ananich today? Did he make any kind of commitment to take action?

-Chad

Chad Livengood
Capitol Reporter
The Detroit News
Lansing bureau: (517) 371-3660
Cell: PPI
clivengood@detroitnews.com
Twitter.com/ChadLivengood

From: Angela Wittrock [mailto:AWittrock@senate.michigan.gov]
Sent: Monday, September 28, 2015 2:48 PM
To: Angela Wittrock <AWittrock@senate.michigan.gov>
Subject: FOR IMMEDIATE RELEASE: Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

FOR IMMEDIATE RELEASE
September 28, 2015

Contact: Angela Wittrock
517.775.1430

Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

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A copy of Senator Ananich's letter to Governor Snyder can be viewed here.

###

Angela Wittrock
Press Secretary
Senate Minority Leader Jim Ananich
...
Boji Tower, Second Floor | Lansing, MI 48909-7536
P: 517.373.1339
C: **PPI**

Please sign up for our e-news at: Senatedems.com/Ananich
Facebook: jimananich | Twitter: @jimananich

From: Kaffer, Nancy <nkaffer@freepress.com>
Sent: Tuesday, September 29, 2015 9:37 AM
To: Wurfel, Sara (GOV)
Cc: Henderson, Stephen
Subject: Re: Flint

Hi Sarah, on the way to a doctors appointment right now. I can talk anytime from around 1130 to 1230, when I have another meeting.

Sent from my iPhone

On Sep 28, 2015, at 9:38 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

> We should slate some time to talk at length tomorrow, Nancy. I will be more than happy to walk through the history of what's been done already and what's in the works.
>
> This is absolutely an issue the administration has been actively engaged on and will continue to do so – challenging issue on so many fronts but one we're committed to helping address – let there be no Q on that front.
>
> I have some time in mid to late morning – hopefully between 10:15 and 11:15 though I know someone was trying to get something on my calendar then, again over lunch hour, or late afternoon after 4:15 p.m. Please let me know if one of those may work for you.
>
> While on subject, am hoping a response from DEQ Director Dan Wyant and DHHS Director Nick Lyon on this topic may be in order that Free Press will run.
>
> Thanks much,
> SW
>
> ---
>
> **From:** Kaffer, Nancy [mailto:nkaffer@freepress.com]
> **Sent:** Monday, September 28, 2015 5:38 PM
> **To:** Wurfel, Sara (GOV) <Wurfels@michigan.gov>
> **Cc:** Henderson, Stephen <shenderson@freepress.com>
> **Subject:** RE: Flint
>
> Hi Sara,
>
> Wanted to touch base again before leaving for the day. I'm writing on this again this week, and really would like to know a) if you guys now believe there is an issue with lead in the water, or are engaging in further testing/analysis to determine if lead is an issue, and b) what exactly you guys are doing to help get safe drinking water to Flint kids.
>
> Best,
>
> Nancy

Nancy Kaffer
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To: 'Wurfel, Sara (GOV)' <Wurfels@michigan.gov>
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From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, September 28, 2015 11:26 AM
To: Kaffer, Nancy <nkaffer@freepress.com>
Subject: RE: Flint

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SW

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Sent: Monday, September 28, 2015 11:14 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint

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Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Ryan Felton <ryanfelton13@gmail.com>
Sent: Tuesday, September 29, 2015 3:37 PM
To: Murray, David (GOV); Wurfel, Sara (GOV)
Subject: PRESS INQUIRY | The Guardian re: Flint

Hi all,

I wanted to see if the governor's office would have any response to the call from Senate minority leader Jim Ananich to have Flint reconnect with Detroit's water system. It's for a story I'm working on for the Guardian, regarding the increase in lead levels in the blood of Flint children ever since the city switched to using the Flint River.

Additionally, can you confirm whether or not the governor's office backed plans from Flint's emergency manager to transfer from using DWSD to the Flint River?

I'm working on a 5 pm deadline for tomorrow (9/30). I appreciate your time and look forward to the response.

Best,

Ryan Felton
Journalist
Detroit, MI
734.353.2221
ryanfelton.tumblr.com
Twitter: @ryanfelton13

From: Brian O'Connell PPI
Sent: Wednesday, September 30, 2015 8:00 AM
To: Wurfel, Sara (GOV)
Subject: Flint water

Sara,
We understand the Governor is going to make an announcement today about Flint water. Can you tell me anything? We are in the process of making a large donation to the community in support of water filters. We do not want to get cross with anyone. I will keep information confidential.

Sent from my iPhone

Nothing in this message is intended to constitute an electronic signature unless a specific statement to the contrary is included in this message.

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From: Baird, Richard (GOV)
Sent: Wednesday, September 30, 2015 8:37 AM
To: Wurfel, Sara (GOV)
Subject: RE: Flint water

This is great. Was not aware. Agree with coordination. I told Harvey I would call my contact on the board at Home Depot.

-----Original Message-----
From: Wurfel, Sara (GOV)
Sent: Wednesday, September 30, 2015 8:34 AM
To: Muchmore, Dennis (GOV); Hollins, Harvey (GOV); Agen, Jarrod (GOV); Baird, Richard (GOV)
Cc: Murray, David (GOV)
Subject: FW: Flint water

Please see below. Not sure what status of our outreach and plans on water filters is? Perhaps we were involved in this GM effort indirectly or directly already. That said, there may be value in combining or coordinating.

Let's talk, please. Want to make sure we're all on same page internally first.

Thanks!
SW

-----Original Message-----
From: Brian O'Connell [mailto:brian.oconnell@gm.com]
Sent: Wednesday, September 30, 2015 8:00 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint water

Sara,
We understand the Governor is going to make an announcement today about Flint water. Can you tell me anything? We are in the process of making a large donation to the community in support of water filters. We do not want to get cross with anyone. I will keep information confidential.

Sent from my iPhone

Nothing in this message is intended to constitute an electronic signature unless a specific statement to the contrary is included in this message.

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From: Wurfel, Brad (DEQ)
Sent: Wednesday, September 30, 2015 9:53 AM
To: Wurfel, Sara (GOV); Wyant, Dan (DEQ)
Cc: Tommasulo, Karen (DEQ)
Subject: FW: Kettering Host City-State-EPA press conference

Importance: High

Seems we may have a location after all? Sara, let me know if you want me to move on booking this. Thanks.
b

From: Jack Stock [mailto:jstock@kettering.edu]
Sent: Wednesday, September 30, 2015 9:09 AM
To: Wurfel, Brad (DEQ)
Cc: Dayne Walling; Paul Crane; Susan Davies
Subject: Re: Kettering Host City-State-EPA press conference

Hi, yes, Friday works for us. I'd like to suggest using our Innovation Center building, which is on Bluff street off Chevrolet Avenue.

Please let me know if this would work?

Jack

On Wed, Sep 30, 2015 at 8:02 AM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:
Would it change anything if the event was Friday afternoon?

Sent from my iPhone

On Sep 29, 2015, at 5:20 PM, Jack Stock <jstock@kettering.edu> wrote:

> Brad,
>
> Sorry, I was mistaken. Ms. Davies is correct.
>
> Perhaps another time?
>
> Jack
>
> Sent from my iPhone
>
> On Sep 29, 2015, at 12:30 PM, Susan Davies <sdavies@kettering.edu> wrote:
>
> > Dayne,
> >
> > Jack Stock will be in touch with your office to help coordinate logistics.

Sue

On Tue, Sep 29, 2015 at 9:06 AM, Dayne Walling <dwalling@cityofflint.com> wrote:
Dear Dr. McMahan and Kettering Team,
We are in discussions with the Michigan Department of Environmental Quality and the US Environmental Protection Agency about a press conference on this Thursday to announce next steps in fixing Flint's water problems. Since it is a collaborative announcement we are looking for a community site and thought of Kettering as our first option.

Would you be willing to please work with us on providing an appropriate space and AV/tech support? The MDEQ Communications Director Brad Wurfel (cc) is the point of contact.

Please let us know given the very short timeline here and needless to say this is confidential at this point.

Thanks, Dayne
--
Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
810-766-7346
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

--

Susan L. Davies, CFRE

Vice President of University Advancement and External Relations
Kettering University
PPI
sdavies@kettering.edu

Kettering University

"Believe and act as if it were impossible to fail." ~ Charles F. Kettering

--
Jack Stock
Director of External Relations
University Advancement and External Relations

Email: jstock@kettering.edu ~ URL: http://kettering.edu
Phone: (810) 762-7873 ~ Fax: (810) 762-7435 ~ PPI
Call toll-free in the USA and Canada at 1-800-955-4464, extension 7873
1700 University Avenue ~ Flint, MI 48504

Kettering University

From: Wurfel, Brad (DEQ)
Sent: Wednesday, September 30, 2015 11:33 AM
To: Wurfel, Sara (GOV); Tommasulo, Karen (DEQ); Pallone, Maggie (DEQ); Shaw, Eric (DEQ); Wyant, Dan (DEQ)
Cc: Lasher, Geralyn (DCH); Eisner, Jennifer (DCH)
Subject: Friday event needs needs list
Attachments: FLINT Friday needs.docx

FYI, here's the operational needs list we're working from for this Friday. Please feel free to add to or opine on it.
b

For Friday

- **Planning**
  - Location/contact – WURFEL, WALLING
  - Invite list TOMMASULO (media), ??
  - Security WURFEL, (WYANT)
  - 12-point plan of action EVERYONE
  - Comms plan – social TOMMASULO
- **Materials**
  - Media advisory/release TOMMASULO / TOMMASULO
  - Script TOMMASULO
  - Visuals – poster of plan? JOSH (12 point & Citizen steps)
  - Video plan/stills plan SHAW
  - 1-pager WURFEL (BUSH)
  - Talking points TOMMASULO
  - Q&A (Plus reporter Qs) DONE (WURFEL / TOMMASULO)
  - 2 op-ed (Freep and MLive) WURFEL
  - Infographic JOSH (RS Comms office)
- On-scene Needs
  - Staff list RS, DEQ, DHHS, City – GET THIS.
  - Speakers list DONE
  - Media/invitees list TOMMASULO
  - Media kits HEATHER
  - Visuals? Pipe section? Water? Test bottles? BUSH, LASHER?
  - Lighting? CITY / KETTERING
  - Sound system? CITY / KETTERING
  - Pipe and drape? CITY / KETTERING
- Follow-up Needs
  - Op-eds to Freep and MLive WURFEL
  - Social media –
    video, tweets, cross posting TOMMASULO

    Issue news release, link to Q&A and VNR TOMMASULO / SHAW / WURFEL
  - Plan outreach to groups GROUP

From: Wurfel, Brad (DEQ)
Sent: Wednesday, September 30, 2015 1:10 PM
To: Wurfel, Sara (GOV); Tommasulo, Karen (DEQ)
Subject: 151001. Flint drinking water communications plan (4)
Attachments: 151001. Flint drinking water communications plan (4).docx

Karen, nice work.
Sara, here's the comms plan.
b

Flint Drinking Water Press Conference Communications Plan
Oct. 2, 2015

Situation overview:
In May 2014, the city of Flint began drawing its drinking water from the Flint River, and left the Detroit Water and Sewerage Department. Recently, some city residents and outside activists have expressed concern about levels of lead in the drinking water. Although repeated testing demonstrates the water leaving the city of Flint's plant is free of lead contamination, Flint contains many old homes with lead plumbing, and some lead gets into individual homes' drinking water.

Talking points:

- The water leaving Flint's Water Treatment Plant is free of lead contamination; however, the state recognizes many older homes have lead pipes and therefore some measure of lead in the water that comes out of their taps
- While this is a problem with individual homes, the city, state and federal governments have come together to provide a number of actions to combat the issue.
- This plan includes both short- and long-term solutions, and focuses on increasing access to water testing, offering additional precautions for families with lead plumbing in their homes, and providing long-term solutions to address the city's water infrastructure.
- The 12 action steps:
    - Immediately test all Flint public schools to ensure that drinking water is safe. Testing will also be available at no cost to any other school in Flint.
    - Expand water testing of at-risk properties.
    - Offer water testing at no cost to Flint residents to assure water is safe.
    - Speed up the implementation of fully optimized corrosion controls in the Flint drinking water system.
    - Convene the city's safe drinking water "Technical Advisory Committee" to ensure the best technology, practices and science are being utilized, and add an expert from the EPA's Office of Research and Development to the group.
    - Gov. Rick Snyder names Dr. Eden Wells as the Flint Drinking Water Public Health Advisor.
    - Continue to disseminate advisories recommending residents flush their cold water pipes before use, as well as use only water from the cold water tap for drinking, cooking and especially for making baby formula.
    - Provide filters to residences of Flint.
    - Offer premixed formula if test results indicate high levels of lead.
    - Accelerate water system improvements to address replacement of lead service lines.
    - Expedite Completion of Karegnondi Water Authority.
    - Facilitate conversation between the City of Flint and DSWD.

Audiences:

- Media
- City of Flint and surrounding communities

Media outreach

Oct. 2

Press conference held at a time TBD

- Dayne Walling – Mayor of Flint
- Dan Wyant – DEQ Director
- Nick Lyon – DHHS Director
- Susan Hedman – Region 5 Administrator for EPA
- Harvey Hollins – Governor's Office
- Representative from the Local Public Health Department
- Congressman Dan Kildee to be invited
- State Sen. Jim Ananich to be invited

Media list

- Ron Fonger, MLive/Flint Journal
- Nick Lulli or other, WNEM TV5
- WJRT ABC 12
- WEYI NBC 25
- Steve Carmody, Michigan Radio
- MIRS
- Gongwer
- Jim Lynch or Chad Livengood, Detroit News
- Nancy Kaffer, Detroit Free Press
- Ed White or Jeff Karoub, Associated Press

Supporting materials in media kit

- Press release
- FAQ
- Timeline
- One-pager
- Infographic

Social media

Oct. 2

DEQ (as well as DHHS and Governor's office?) Twitter

- During event: Still images of press conference
- At event's conclusion: Link to press release

- 30 minutes after conclusion: Link to FAQ document
- ASAP: Video news release

YouTube

- Video news release
- Footage of each speaker's comments

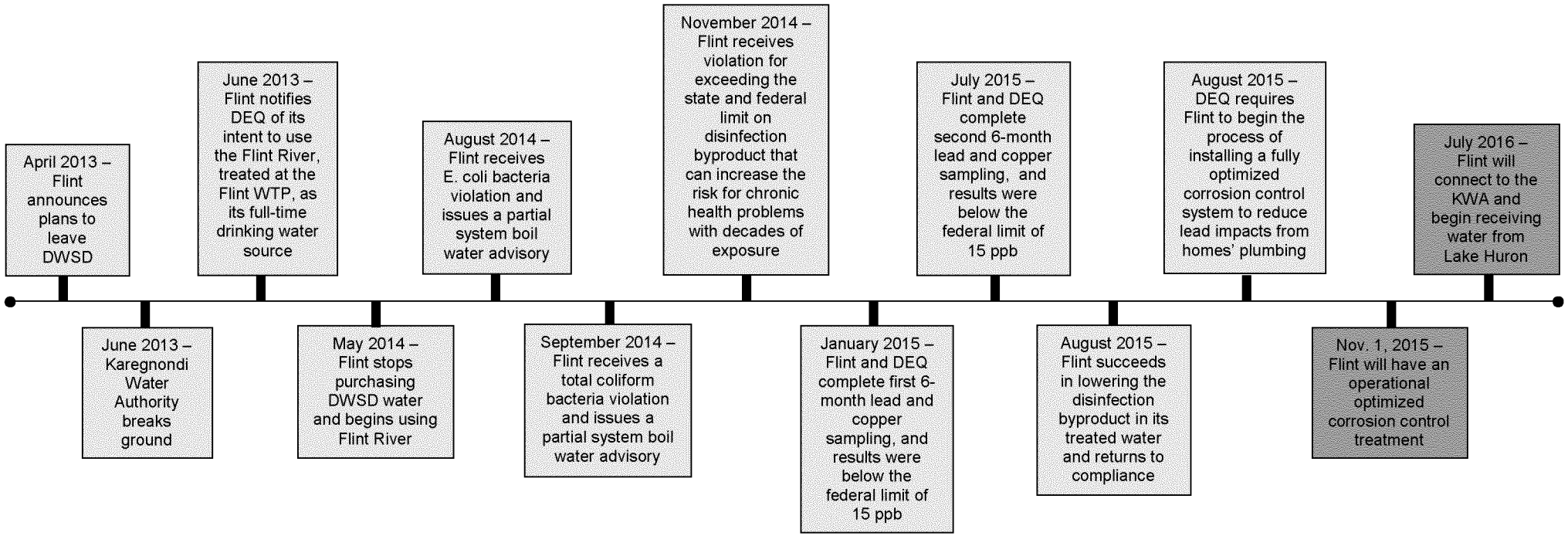
From: Tommasulo, Karen (DEQ)
Sent: Wednesday, September 30, 2015 1:21 PM
To: Wurfel, Brad (DEQ); Wurfel, Sara (GOV)
Subject: Flint drinking water timeline
Attachments: Timeline.docx

Another piece for the media kit and website.

Karen Tommasulo
Public Information Officer
Michigan Department of Environmental Quality
517-284-6716 | 517-599-5733
tommasulok@michigan.gov

Drinking Water in Flint

April 2013 - July 2016



From: Brian O'Connell <brian.oconnell@gm.com>
Sent: Wednesday, September 30, 2015 3:20 PM
To: Wurfel, Sara (GOV)
Subject: Re: Flint water

I think our timing is for tomorrow at some point. I think it will be rather simple letting people know we donated to the United Way. We are still waiting on testing at our plant and making sure everything is safe for our employees. We are having some testing done and need to know those results before we proceed.

Sent from my iPad

> On Sep 30, 2015, at 8:31 AM, "Wurfel, Sara (GOV)" <Wurfels@michigan.gov> wrote:
>
> Thanks for note and reaching out, Brian.
>
> The announcement is actually Friday early afternoon (final details in process of still being worked out, though additional water filters are certainly one planned piece) - would there be any interest in combining? or what's sense of timing and plan on your end? Will absolutely also keep confidential.
>
> May be best to chat too.
>
> Just let me know.
>
> Thanks so much,
> SW
>
> -----Original Message-----
> From: Brian O'Connell [mailto:brian.oconnell@gm.com]
> Sent: Wednesday, September 30, 2015 8:00 AM
> To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
> Subject: Flint water
>
> Sara,
> We understand the Governor is going to make an announcement today about Flint water. Can you tell me anything? We are in the process of making a large donation to the community in support of water filters. We do not want to get cross with anyone. I will keep information confidential.
>
> Sent from my iPhone
>
>
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>
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From: Maloney, Damon <damon.maloney@abc12.com>
Sent: Wednesday, September 30, 2015 6:50 PM
To: Wurfel, Sara (GOV)
Subject: Concerned Pastors for Social Action - Meeting with Governor's Office

Hello Sara,

My name is Damon Maloney with ABC12 News in Flint.
I'm writing to inquire about a meeting being held tomorrow morning in Lansing between the Governor's Office and the group 'Concerned Pastors for Social Action' from Flint.

We're hearing the meeting centers around Flint's water quality concerns and is scheduled for sometime around 9 o'clock.

From my understanding this meeting won't be open to the public, but I'm wondering if we can at least have a location of where it's taking place? We'll be looking for reaction after the meeting from locals.

Thank you,
Damon Maloney -810-877-3707

Damon Maloney
Reporter/Anchor - ABC12 News
PPI **(cell)**
damon.maloney@abc12.com
On Facebook

From: Wurfel, Brad (DEQ)
Sent: Thursday, October 01, 2015 2:15 AM
To: Wyant, Dan (DEQ); Lyon, Nick (DHHS); Wurfel, Sara (GOV); Lasher, Geralyn (DHHS); Tommasulo, Karen (DEQ)
Cc: Muchmore, Dennis (GOV)
Subject: DRAFT Freep Editorial
Attachments: DRAFT freep editorial short 092015.docx

First cut at the Free Press rebuttal editorial. Please review and advise.
Phone conversations preferable.
b

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713
PPI cell

A new way forward in Flint

State regulatory leaders were disappointed by recent Free Press editorials mischaracterizing Lansing's oversight of the City of Flint's drinking water system. The paper's portrayal of the state as uncaring about drinking water quality and the community's exposure to lead are simply off the mark.

State and federal regulators run programs to monitor lead in drinking water and in kids' blood levels specifically to track lead impacts on our communities. Lead is a real concern, particularly in children, and we take our responsibility seriously.

But it is important to remember that lead is all around us. It is in soils, deposited for decades by leaded fuel and industrial processes. It is paint, in homes built in the mid-1970s or earlier. And it is unfortunately common in the plumbing and service connections of older homes, which is why the DEQ requires community water sources around the state to track and record it and take steps when levels surpass federal action thresholds.

Let's be clear: The Flint River is not contributing lead. The water leaving the drinking water plant is clean and safe. The water traveling through the distribution system also is free of lead. The lead issues are the result of water in homes that have lead service lines or lead plumbing. And because the contamination factor is at the homeowner level, it is difficult to track or assess with the kind of specificity customers would like to think regulators have. Two homes on the same block might have very different results from lead testing, based on what kind of plumbing they have and how homeowners use their water.

Moreover, the City's efforts to test for lead involve sending water sampling kits to homeowners and relying on them to participate and follow the sampling instructions, and that has been a long-standing challenge in Flint. This year, the City sent out 200 bottles in January and got 60 samples back by June. We must operate on the best knowledge we have available, and we only know what the customers let us know by participating in the City's testing.

Emerging data from local doctors, however, added to our knowledge enough to spark some unusual precautionary actions. They reported to the media that blood lead levels in Flint kids at their offices are up this year. It's still early to know exactly what that means, but because lead is a serious threat to children's development, we have decided to take some short-term precautionary measures and do more to learn exactly what is happening in the city.

The state today joined with local and federal authorities to present an 11-step action plan designed to produce a clearer picture of lead in the community's water, offer immediate protection for its kids and families with corrosion control and free lead water

filters, review and audit testing protocols, and immediately assess the schools to reassure parents their kids are not exposed to lead at the drinking fountains.

Critics in the community and at the Free Press have said we have been slow to respond to Flint's drinking water concerns. The truth is that local, state and federal authorities have been paying very close attention to Flint's drinking water all along, but we have the responsibility to check facts and use the knowledge we have to develop responsible, meaningful strategies that will help everyone clearly understand the real risk level and take appropriate actions.

We will be transparent with all we are doing and everything we determine. But Flint residents should also recognize our ultimate success depends on their help. Residents with lead concerns should have their home water tested – customers of Flint water can request it for free. Parents of younger kids should have their children get free blood lead level testing at the local community health department. Residents who receive a testing kit from the City should recognize that this is an important opportunity to learn about their lead exposure while helping the city better track the quality of the water they provide.

We are committed to doing all we can to protect drinking water and public health, in Flint and the rest of Michigan. Possibly the most difficult crisis to address in Flint right now is a crisis of public confidence. The plan set forth today should send the strong signal that residents can be assured the city, state and federal regulators are accountable, forthright and working hard to protect them. It is the community's responsibility to take the steps available to them as well. Ensuring public health is a public service, but the public can play a key role.

Learn more at Michigan.gov/FlintDrinkingWater

From: Wurfel, Brad (DEQ)
Sent: Thursday, October 01, 2015 3:40 AM
To: Wyant, Dan (DEQ); Lyon, Nick (DHHS); Lasher, Geralyn (DHHS); Tommasulo, Karen (DEQ); Wurfel, Sara (GOV)
Cc: Muchmore, Dennis (GOV)
Subject: Mlive guest column 092015
Attachments: Mlive guest column 092015.docx

First cut at Mlive guest column. Same drill as last email, please review and advise before we share it around to the broader group.
Thanks.
b

Leaders address ‘crisis of confidence’ with Flint water

Residents of Flint have been hearing concerning news about the municipal water supply for more than a year. Since the City switched water supplies and began using the Flint River as its source, some have complained that the water is different. State regulators have cited the system for various compliance issues.

More recently, voices within the community – and some from other states – have alleged state regulators failed to do their jobs. It simply is not the case. Leaders from the regulatory community today announced an 11-point plan to build our knowledge about lead in flint, better protect the community and restore public confidence in the regulatory framework.

Over the past year, the city has completed lead and copper testing required by law. Lead is a real concern, particularly in children. State and federal regulators run programs to monitor lead in drinking water and in kids’ blood levels specifically to track lead impacts on our communities.

It is important to remember lead comes from many sources, particularly in the state’s urban and industrial areas. It is in soils, deposited for decades by leaded fuel and industrial processes. It is paint, in homes built in the mid-1970s or earlier. And it is common in the plumbing and service connections of older homes, which is why the DEQ requires community water sources around the state to track and record it and take steps when levels surpass federal action thresholds.

Flint’s drinking water passed its lead and copper test. However, testing done by non-regulatory entities produced a different picture, creating confusion and concern – for residents of flint as well as city, state and federal regulators.

The lead in question does not coming from the Flint River. The water leaving the drinking water plant is clean and safe. The water traveling through the distribution system also is free of lead. The lead issues happen when the water reaches homes that have lead service lines or lead plumbing. This is important to know for two reasons: One, because the contamination happens at the homeowner level, it is very difficult to track precisely. And, the longer water sits in lead pipes, the more lead it takes on, so homes on the same block might have very different results from lead testing, based on what kind of plumbing they have and how homeowners use their water.

The City’s efforts to test for lead involve sending water sampling kits to homeowners and relying on them to participate and follow the sampling instructions, and that has been a long-standing challenge in Flint. This year, the City sent out 200 bottles in January and got 60 samples back by June. Regulators must operate on the knowledge available, and we only know what the customers let us know by participating in the City’s testing.

However, a recent announcement by local doctors that blood lead levels are rising in children residing in Flint's most at-risk zip codes added enough to the state's knowledge to spark some unusual precautionary measures. Experts are still working the data to determine exactly what it means, but the state takes lead seriously. Leaders have put forth an 11-point plan with short-term and long-term actions that will bolster our knowledge of the situation and provide a more accurate assessment of the threat level.

In the near term, the state will move immediately to provide free lead water filters for Flint water customers. We will test the drinking water at Flint schools. We will provide bottled water and formula to Flint mothers at risk. The system will be optimized for corrosion controls by the end of the month. These precautions will help protect the community while the state takes a deeper look at the drinking water system, the last round of test results and the testing protocols.

Flint residents should understand the state has been focused on Flint's water and Flint's kids for decades, but state leaders cannot make knee-jerk decisions based on unchecked allegations in the media. We have the responsibility to check facts and make decisions carefully, using the knowledge we have available to direct public resources.

Community participation plays a key role in our success. Residents who receive a testing kit from the City should recognize that this is an important opportunity to learn about their lead exposure while helping the city better track the quality of the water they provide. Residents with lead concerns should request a free home test from the city. Parents of young kids should take advantage of free blood lead level testing at the local community health department.

The plan set forth by the state speaks to a coordinated partnership among city, state and federal leaders. With community involvement, Flint's residents can be assured of more accurate and effective protection from lead exposure.

Learn more at Michigan.gov/FlintDrinkingWater

From: Maloney, Damon <damon.maloney@abc12.com>
Sent: Thursday, October 01, 2015 12:10 PM
To: Wurfel, Sara (GOV)
Subject: RE: Flint Water

Sounds good. I sent that email last night inquiring about today and took steps today to ensure a smooth process. I know you know that and it's clearly understood on my end as well- next time I'll follow up with a phone call in addition to email.

Sent via the Samsung GALAXY S®4, an AT&T 4G LTE smartphone

-------- Original message --------
From: "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>
Date: 10/01/2015 11:26 AM (GMT-05:00)
To: "Maloney, Damon" <damon.maloney@abc12.com>, "Murray, David (GOV)" <MurrayD1@michigan.gov>
Subject: RE: Flint Water

We're always glad to help, Damon - that's what we're here for. Please just reach out in advance in the future.

Stay tuned - as governor and team have noted, our administration has dedicated a lot of time and resources to work collaboratively on this issue as well as see what additional action items we can do and help with. We were hoping to have that wrapped up by week's end. As details get finalized, I know folks will be in touch.

More soon,
SW

-----Original Message-----
From: Maloney, Damon [mailto:damon.maloney@abc12.com]
Sent: Thursday, October 01, 2015 10:23 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Flint Water

Thank you for your help today- appreciate your hospitality.

Wanted to ask if a press conference is scheduled for tomorrow in any shape or manner dealing with Flint Water and the Future.

Thanks,
Damon

Damon Maloney
abc12 News
Sent from my iPhone

From: Tommasulo, Karen (DEQ)
Sent: Thursday, October 01, 2015 4:42 PM
To: Minicuci, Angela (DHHS); Lasher, Geralyn (DHHS); Eisner, Jennifer (DHHS)
Cc: Wurfel, Brad (DEQ); Wurfel, Sara (GOV); Murray, David (GOV); Pallone, Maggie (DEQ)
Subject: run of show
Attachments: 151001. Press conference script.docx

Here's the run of show as it stands. Did you want to add Nick's comments or change anything else on it? I'm not sure how much he works from prepared remarks.

Karen Tommasulo
Public Information Officer
Michigan Department of Environmental Quality
517-284-6716 | 517-599-5733
tommasulok@michigan.gov

On stage
Dan Wyant
Harvey Hollins
Nick Lyon
Dr. Eden Wells
Dayne Walling

Harvey Hollins

- Thank you all for being here today. I'm Harvey Hollins, Director of the Office of Urban Initiatives for Gov. Rick Snyder.
- We're here as representatives of local, state and federal government to talk about ensuring safe drinking water for everyone in Flint. We have with us today:
    - Nick Lyon, Director of the Michigan Department of Health and Human Services
    - Dr. Eden Wells, Chief Medical Executive for the Michigan Department of Health and Human Services
    - Dayne Walling, mayor of Flint
    - And Dan Wyant, director of the Michigan Department of Environmental Quality. Dan?

Dan Wyant

- Thank you, Harvey. And thank you all for being here today.
- We know many residents are concerned about their health and the health of their children. We understand many have lost confidence in the drinking water system, and we need to build that back up. And we recognize we need to do more.
- We have an action plan to announce today that will address both the short- and long-term issues.
- It focuses on increasing water testing, offering additional precautions for families with lead plumbing in their homes, and providing long-term solutions to address the city's water infrastructure.
- The plan includes:
    - Immediately test Flint public schools to ensure that drinking water is safe. Testing also will be available at no cost to any other school in Flint.
    - Expand health exposure testing of individual residences.
    - Offer water testing at no cost to Flint residents to assure water is safe.
    - Begin optimizing corrosion controls in the Flint drinking water system.
    - Convene a "Safe Drinking Water Technical Advisory Committee" to ensure the best technology, practices and science are being utilized, and add an expert from the EPA's Office of Research and Development to the group.
    - Accelerate water system improvements to address replacement of lead service lines.
    - Expedite completion of Karegnondi Water Authority.
- Now, I want to turn the mic over to my colleague Nick Lyon to discuss some of these plans in more detail.

Nick Lyon

- Provide water filters to residents of Flint.
- Expand a comprehensive lead education initiative.
- Gov. Rick Snyder names Dr. Eden Wells as the Flint Drinking Water Public Health Advisor.

Dr. Eden Wells

Discuss Hurley's data, concern about blood lead levels

Harvey Hollins

Bring up mayor

Dayne Walling

Talk about advisories issued, free water testing available, next meeting of the Citizen Advisory Committee.

Q&A

From: Lynch, James <JLynch@detroitnews.com>
Sent: Thursday, October 01, 2015 5:36 PM
To: Wurfel, Sara (GOV)
Subject: RE: Hey Sara.

An word on the where and when for tomorrow?

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Thursday, October 01, 2015 4:30 PM
To: Lynch, James
Subject: RE: Hey Sara.

Hi there Jim –

Would say this issue is one that we've been actively engaged on and our administration will be outlining a collaborative, comprehensive action plan tomorrow afternoon. We believe protecting public health is paramount and safe, clean, accessible drinking water is essential . That's what we are focused on helping ensure and working together across local, state and federal levels to bring all resources and ideas to bear.

Would add that the governor and state agencies have been closely working with Flint leaders on their infrastructure challenges for a while, including providing $4.2 million in grants and restructured loan financing to provide resources needed to locate and fix infrastructure problems and add the carbon filtration system, additional testing and helping identify and provide filters.

Hope that helps.

Thanks and best,
SW

From: Lynch, James [mailto:JLynch@detroitnews.com]
Sent: Thursday, October 01, 2015 3:17 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Hey Sara.

Any chance we can get a comment out of the governor's office regarding this collection of enviro/civil rights groups asking the EPA to step in to the Flint water situation?

Jim Lynch
The Detroit News
(313) 727-5045
jlynch@detnews.com

From: Wurfel, Brad (DEQ)
Sent: Thursday, October 01, 2015 6:56 PM
To: Wurfel, Sara (GOV); Pallone, Maggie (DEQ); Wyant, Dan (DEQ)
Cc: Tommasulo, Karen (DEQ); Murray, David (GOV); Lasher, Geralyn (DHHS); Stanton, Terry A. (Treasury)
Subject: Media QA
Attachments: Media QA.docx

Got a couple questions in here related to the Governor specifically, so please have a look and help me make sure it's right before we call this final, but here's the media Q&A.
Also, Terry please have a look at one of the later questions about the historic sequence. I think I captured the decision on leaving DWSD, but if you've got an official recollection, please provide. Thanks.

b

Flint Drinking Water
Media Q&A

Is the city going back to DWSD?
That's something we're leaving open. It's an option, but there are no moves at this time to do so. If it becomes something city leadership is interested in doing, the state is willing to act as a facilitator between Flint and DWSD to help come to conclusion that's best for the residents of Flint.

How did the state not see or fix this problem sooner?
Right now, we're focusing on addressing the problem at hand. Every household in the city of Flint is going to be eligible to receive a water filter. The Flint Water Treatment Plant is going to fully optimize its corrosion controls by Nov. 1. And we're going to accelerate water system improvements to address the replacement of lead service lines.

In the long term, we will work with the U.S. EPA to look at water testing protocol.

Is the water safe?
The water leaving the Flint Water Treatment Plant is safe to drink and meets federal guidelines for lead. However, we recognize some residents experience higher levels of lead in the water that comes out of their faucets because of lead service lines or lead plumbing in the home. We will expand water testing to better determine which areas have a problem; however, in the meantime, every home will receive a filter to ensure their drinking water is safe.

Does this mean Marc Edwards was right?
We aren't familiar with his testing protocol and have not seen his data. All we know is the state's data and the data Hurley Medical Center provided indicate a need to take precautionary action.

Why didn't you require corrosion controls from day one?
When the city switched water sources, they did begin using lime softening as a corrosion control. DWSD used phosphates, which is another form of corrosion control, but far from the only one. Flint was within federal protocols when it chose to use lime, and this is consistent with what every other community was required to do. The city will now use the past year's water test results to inform a final, or 'optimized' corrosion control system, and has pledged to do so by Nov. 1.

How do you feel about the state and federal testing protocols now that you know there was a problem?

DEQ is working in the community to get a better sense of the actual lead threat, and working with EPA to review our testing protocols. Beyond federal statute requirements, our goal is to protect public health. If we determine we need to make changes, we will.

Why are you requiring corrosion optimization now?
An optimized corrosion control plan will mean lead service lines and plumbing are coated with a layer of phosphates to minimize lead leaching into water. It won't eliminate the lead issue from the water, but it is expected to minimize it. The sooner the city can begin this treatment, the sooner this added level of protection will be in place.

What will you do if the schools you are testing come back with lead?
We will do whatever is necessary to protect the kids in those schools. The action steps announced today should make it clear the state puts the safety of kids and families first.

Is the Governor going to give the city the $30 million it asked for? Or the $13 million state Sen. Ananich wants to include in the budget?
This is a longer term conversation with the state Legislature. As we develop a clearer picture of Flint's lead exposure levels, it will help inform a conversation about short and long-term needs and priorities.

Why did the Governor and the state ignore city residents who have been saying there's a problem for six months?
The state has not ignored this situation. DEQ specialists have been working regularly with Flint officials, in Flint, for the past several years. We've been paying very close attention, but state regulators can't make decisions on allegations. We've been collecting and analyzing data and putting our top departmental minds on this issue. Some new information recently concerns the state enough to take action out of an abundance of caution while we investigate further.

Why did the Governor hide the fact that he was involved in distributing filters previously?
The Governor did not hide anything. He's long been a proponent of a "no blame, no credit" approach to leadership. The administration has been meeting regularly with church leaders from Flint, and he listened when many of them expressed that their memberships had serious concerns. His help to acquire the filters wasn't a media stunt, and he didn't feel compelled to claim credit for his role.

Will you meet with Marc Edwards?
We are not adverse to the idea. He has been invited to participate in the Mayor's Technical Advisory, and DEQ's staff are on that group, so we anticipate getting to dialogue with him there.

Do you trust the city's data?
The city certified its data, as all water system operators do when performing statutorily required lead and copper tests. We are reviewing their data.

Why did the Governor allow the city to switch away from DWSD initially?
The city felt compelled to make the switch. At the time, DWSD was forming the Great Lakes Water Authority, and offered Flint a contract when the city announced it would eventually leave to join KWA. The city

Has the city/Governor put residents at risk?
We don't think so. We recognize there is tremendous public concern in Flint regarding the water. The system is in compliance with federal lead and copper rules, based on testing. But we are aware that some in Flint are being exposed to higher levels of lead, and we are taking significant precautionary steps to protect the community as we look deeper into the situation.

What will the state do about my children? Lead poisoning causes irreversible damage.
Lead poisoning is serious. That is why the state has several programs that screen for lead in our communities and work to educate parents about sources of lead poisoning and ways to avoid it.

Is lead just a problem in Flint?
Lead is a long-standing problem throughout Michigan and the country. The leading source of lead poisoning is lead paint, but other pathways include soils contaminated by historic lead from car emissions and industrial processes, and sometimes from lead plumbing and service connections in old homes and neighborhoods. While all these sources are long outlawed, the lead persists in the environment and in homes.

Why isn't the Governor here today?
Governor regrets he cannot personally lead this announcement. He is out of state and the leadership of his cabinet on this issue, Nick Lyon and Dan Wyant, are presenting this plan today because the state did not want to wait to announce it is taking action. But the governor was integral in the development of the plan.

Does the Flint River have lead? Is it more corrosive than the water from DWSD?
The Flint River does not have lead. The water produced by the drinking water plant does not have lead in it. This issue is strictly about the lead in home plumbing, and that fact makes getting specific data about lead exposure a challenge.
On the issue of corrosivity: the state's drinking water program screens drinking water for 90 different contaminants, but corrosiveness it is not a drinking water standard. Operators of large systems are required to implement corrosion control measures, and Flint is doing that on a very abbreviated schedule.

If the lead is in individual homes' plumbing, how long will it take to fix this problem?
Experts estimate that the process from commencing corrosion control measures to seeing a protective coating develop throughout the system could take up to six months.

Will the move to KWA fix it, or will we still see lead?
It is entirely possible. Historic testing of Flint's system showed the presence of lead when the city was using DWSD water, and it is likely that some homes will still see some level of lead exposure after the system is optimized. The only way to eliminate lead completely is to remove lead plumbing.

Will testing start over when we move to KWA?
Yes, but the corrosion control measures will not be suspended when the city begins the process again next year. The new water source KWA will supply is the same one the Detroit system uses – Lake Huron.

Why aren't Kildee and Ananich here?
Don't know. They were briefed and invited. Today's announcement is a partnership, and we will look to our elected leadership to help protect the people of Flint.

How much are we paying all these new consultants – Dr. Wells and the EPA expert?
Dr. Wells is the state's Chief Medical Officer. Her new role in Flint is part of her duties to the state. The EPA expert similarly is participating as part of his job (SOMEBODY TELL ME IF THIS IS ACCURATE).

Did the DEQ provide any advice to the emergency manager about the switch from DWSD?
The state was opposed to Flint leaving DWSD – not because of concerns about water quality, but because at the time the city was working through its bankruptcy and the state felt the move would incur more expenses for both cities. Flint made the case it could save money in the period that KWA was constructing its pipe, and the state leaders – including the Emergency Financial Manager – eventually granted the city its request.

How long has lead been a problem in Flint? If the problem is in people's home, does that mean they have always been poisoned by this?
Lead is a historic problem, particularly in urban areas, around the nation. While the leading source of lead ingestion has always been paint, lead plumbing has always been some lesser part of the picture. This is why the U.S. EPA created the lead rule – to monitor drinking water systems and raise awareness about lead in home plumbing, and require systems to take steps to minimize lead exposure.

Why aren't you declaring a state of emergency?
The action plan announced today takes significant steps to protect the community while state experts take a closer look at the situation. Available information is concerning enough to spark precautionary protective actions, but there is insufficient hard data yet available to declare an emergency.

Why aren't you providing bottled water?
Distributing lead filters throughout the city will address lead exposure in drinking water while the state continues its investigation.

How long does it take for the system to be fully optimized once the corrosion control treatment begins?
Approximately six months. The state will direct the city to test the system again early next year to check its progress. Any resident approached to participate in the testing is strongly encouraged to participate. Not only does the opportunity offer a free home lead test, but the results help city and state regulators get a more accurate picture of what is happening. Resident participation is crucial to the success of this program, and participation in Flint has historically been a challenge.

From: Wyant, Dan (DEQ)
Sent: Thursday, October 01, 2015 7:13 PM
To: Wurfel, Brad (DEQ)
Cc: Wurfel, Sara (GOV); Pallone, Maggie (DEQ); Tommasulo, Karen (DEQ); Murray, David (GOV); Lasher, Geralyn (DHHS); Stanton, Terry A. (Treasury)
Subject: Re: Media QA

Looks great. Only one edit from me. Take out "there is no move to do so" in first question. City has approached Great Lakes Water authority.

Sent from my iPhone

On Oct 1, 2015, at 6:55 PM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:

> Got a couple questions in here related to the Governor specifically, so please have a look and help me make sure it's right before we call this final, but here's the media Q&A. Also, Terry please have a look at one of the later questions about the historic sequence. I think I captured the decision on leaving DWSD, but if you've got an official recollection, please provide.
> Thanks.
>
> b
>
> <Media QA.docx>

From: Stanton, Terry A. (Treasury)
Sent: Thursday, October 01, 2015 7:38 PM
To: Wyant, Dan (DEQ)
Cc: Wurfel, Brad (DEQ); Wurfel, Sara (GOV); Pallone, Maggie (DEQ); Tommasulo, Karen (DEQ); Murray, David (GOV); Lasher, Geralyn (DHHS)
Subject: Re: Media QA

Would suggest the following edits...

Did the DEQ provide any advice to the emergency manager about the switch from DWSD?
The state was opposed to Flint leaving DWSD – not because of concerns about water quality, but because at the time the city of Detroit was working through its bankruptcy and the state felt the move would incur more expenses for both Detroit and Flint. The the-emergency manager, mayor and city council approved the move to KWA and the state approved the transition. Following the city's decision to move to KWA, DWSD canceled flints contract effective April of 2014. The city faced limited options for its water source following the cancellation of its DWSD contract.

On Oct 1, 2015, at 7:12 PM, Wyant, Dan (DEQ) <WyantD@michigan.gov> wrote:

> Looks great. Only one edit from me. Take out "there is no move to do so" in first question. City has approached Great Lakes Water authority.
>
> Sent from my iPhone
>
> On Oct 1, 2015, at 6:55 PM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:
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> > Thanks.
> >
> > b
> >
> > <Media QA.docx>

From: Wurfel, Brad (DEQ)
Sent: Thursday, October 01, 2015 7:46 PM
To: Wurfel, Sara (GOV); Wyant, Dan (DEQ)
Subject: Fwd: Media QA

Sent from my iPhone

Begin forwarded message:

> **From:** "Stanton, Terry A. (Treasury)" <StantonT@michigan.gov>
> **Date:** October 1, 2015 at 7:45:30 PM EDT
> **To:** "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
> **Subject: Re: Media QA**
>
> Would also suggest the following:
>
> **Why did the Governor allow the city to switch away from DWSD initially?**
> (Would use last portion of the response I sent earlier) The then-emergency manager, mayor and city council approved the move to KWA and the state approved the transition. Following the city's decision to move to KWA, DWSD canceled flints contract effective April of 2014. The city faced limited options for its water source following the cancellation of its DWSD contract. he city felt compelled to make the switch. Once the city opted to move to KWA by 2016, Its contract with DWSD was canceled.
>
> On Oct 1, 2015, at 6:55 PM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:
>
> > Got a couple questions in here related to the Governor specifically, so please have a look and help me make sure it's right before we call this final, but here's the media Q&A.
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> >
> > b
> >
> > <Media QA.docx>

From: Eisner, Jennifer (DHHS)
Sent: Friday, October 02, 2015 9:51 AM
To: Wurfel, Sara (GOV); Murray, David (GOV); Tommasulo, Karen (DEQ); Wurfel, Brad (DEQ); Lasher, Geralyn (DHHS)
Subject: Updated Flint Talking Points
Attachments: Flint Water Talking Points 100215.docx

Please see the section on water filters -- updated to reflect most current information.

Thank you,
Jennifer

Blood Lead Levels in Flint Talking Points
October 1, 2015

- Initial analysis of MDHHS data found that blood lead levels (BLLs) of children in Flint have followed an expected seasonal trend; due to small numbers further analysis was initiated.
- While this analysis of blood lead levels in Flint as a whole remains true, after a comprehensive and detailed review down to the zip code level, we have found that the state analysis is consistent with that presented by Hurley.
- Director Lyon is working closely with DEQ and the administration to take active steps to reduce all potential lead exposures in Flint, and across the state.
- Our Chief Medical Executive has been in communication with the lead investigator at Hurley Children's Hospital, and we continue to work with Hurley, the city of Flint, local and state leaders to verify and analyze data trends.
- Zip code-level data does show that there has been an increase in elevated childhood blood lead levels in specific communities.
    - This does not conclusively mean that the water source change is the sole cause of the increase, but data does show an association.
    - There is an increased proportion of children with elevated Blood Levels (ELBs) in several zip codes, particularly 03 and 04. These appear to have increased over the last 1.5 years.
    - Lead exposure can occur from a number of different sources (such as paint, gasoline, solder, and consumer products) and through different pathways (such as air, food, water, dust, and soil).
    - Although there are several exposure sources, lead-based paint is still the most widespread and dangerous high-dose source of lead exposure for young children in the US and Michigan.
- We reviewed MDHHS statewide data using the same methodology used by Hurley, looking at our numbers by zip code and age ranges, and filtering out non-Flint children.
- Routine surveillance of blood lead levels does not analyze data down to the zip code level. Detailed analysis like this occurs when there is reason to focus in on precise locations or populations.
- MDHHS will be working closely with the Michigan Department of Environmental Quality, Hurley Children's Hospital, the Genesee County Health Department, and community organizations to initiate further action steps.
- We understand that cost may be a barrier to following the recommendations of the local health department. We are actively working with public and private partners to make resources available to those who may need assistance.
- MDHHS is recommending that residents follow the Public Health Advisory issued by the Genesee County Health Department, as well as take further steps to reduce exposures to all forms of lead in and around their homes.

MDHHS Stats and Facts

- 'High Risk' Zip codes (48503 and 48504)
    - Blood lead level rates among children under six years of age in the high risk zip codes (48503, 48504) were 2.7 times higher than the rest of Genesee County before the switch to Flint River Water.
    - After the switch to Flint River Water, rates in the high risk Zip codes were 3.2 times that of the rest of Genesee County.
- Other Zip codes in Flint
    - Rates of elevated blood lead levels among children under six years of age in other parts of the city of Flint were 2 times that of the rest of Genesee County before the switch to Flint River Water.
    - The magnitude of the elevated rate remained roughly the same during the period after the water source switch.
- Lead abatement through MDHHS was federally funded up until FY14 when Michigan began providing additional funds to abate homes.
- In FY14, $1.25M General Fund was added. In FY15, General Fund was bumped up to $1.75M and FY16, General Fund remains at $1.75M.

Water Filters

- Our first action item is to work closely with our public and private partners to provide water filters to Flint residents and MDHHS clients.
- To meet this priority, the governor has identified one million dollars in state funding to purchase water filters for Flint residents.
- Given the questions and concerns regarding the change in water source in Flint, MDHHS has authorized the use of emergency services funding to provide water filters for MDHHS clients receiving assistance in the city of Flint.
- We would like to pursue a plan for clients who are active Family Independence Program (FIP), Food Assistance Program (FAP), Child Development and Care (CDC) or Social Security Insurance (SSI) to come to the local MDHHS offices in Flint to obtain a waiver that they could then take to an identified Meijer or Walmart store to obtain water filters that are National Sanitation Foundation (NSF) certified to remove lead and ANSI Standard 53.
- We are in discussions with local retailers and will share additional information about where residents can go to purchase filters as soon as those details have been finalized.
- MDHHS currently serves approximately 25,000 households in Flint but we would anticipate processing approximately 5,000 requests for vouchers a week.

Reducing and Removing Lead Exposure

- In housing built before 1978, it can be assumed that the paint has lead unless tests show otherwise.

- Make sure your child does not have access to peeling paint or chewable surfaces painted with lead-based paint.
- Children and pregnant women should not be present in housing built before 1978 that is undergoing renovation. They should not participate in activities that disturb old paint or in cleaning up paint debris after work is completed.
- Create barriers between living/play areas and lead sources. Until environmental clean-up is completed, you should clean and isolate all sources of lead.
    - Close and lock doors to keep children away from chipping or peeling paint on walls. You can also apply temporary barriers such as contact paper or duct tape, to cover holes in walls or to block children's access to other sources of lead.
- Regularly wash children's hands and toys. Hands and toys can become contaminated from household dust or exterior soil. Both are known lead sources.
- Regularly wet-mop floors and wet-wipe window components. Because household dust is a major source of lead, you should wet-mop floors and wet-wipe horizontal surfaces every 2-3 weeks.
    - Windowsills and wells can contain high levels of leaded dust. They should be kept clean. If feasible, windows should be shut to prevent abrasion of painted surfaces or opened from the top sash.
- Take off shoes when entering the house to prevent bringing lead-contaminated soil in from outside.
- Prevent children from playing in bare soil; if possible, provide them with sandboxes. Plant grass on areas of bare soil or cover the soil with grass seed, mulch, or wood chips, if possible.
    - Until the bare soil is covered, move play areas away from bare soil and away from the sides of the house. If you have a sandbox, cover the box when not in use to prevent cats from using it as a litter box. That will help protect children from exposure to animal waste.
- Avoid using makeup, containers, cookware, or tableware to store or cook foods or liquids that are not shown to be lead free.
- Remove recalled toys and toy jewelry immediately from children.
- Use only cold water from the tap for drinking, cooking, and making baby formula. Hot water is more likely to contain higher levels of lead. Most of the lead in household water usually comes from the plumbing in your house, not from the local water supply.
- Shower and change clothes after finishing a task that involves working with lead-based products such as stained glass, making bullets, or using a firing range.

WIC Children

- There are 855 infants participating in WIC in Flint.
- We are working with partners at the United Way to ensure that WIC families have access to water filters and bottled water.

- In homes with infants on WIC, if the household has documentation from an official source of unsanitary water supply issues, that family may be eligible to receive ready-to-feed formula. Families should contact WIC to see if they are eligible.
- Each household would have to be looked at on an individual basis.
- WIC cannot cover bottled water.

Background

- The results of the Hurley Children's Hospital were reviewed by MDHHS after the study was released last week.
- The analysis that Hurley conducted was different from the initial MDHHS data regarding blood lead levels in Flint.
- MDHHS initial data looked at the entire blood lead levels for the Flint area for the past five years and showed the annual seasonal trends in the area.
- Seasonal exposure is higher in the summer for a variety of reasons including children playing outside in the soil, and when windows are open and lead paint is more likely to be in the air. Further, seasonal variations in water can occur due to changes in temperature, pH , and other factors

From: Pallone, Maggie (DEQ)
Sent: Friday, October 02, 2015 9:56 AM
To: Wurfel, Brad (DEQ); Wurfel, Sara (GOV); Lasher, Geralyn (DHHS); Wyant, Dan (DEQ); Hertel, Elizabeth (DHHS)
Cc: Tommasulo, Karen (DEQ)
Subject: Flint water - talking points (draft 151001) IMPORTANT UPDATES
Attachments: Flint water - talking points (draft 151001).docx

PLEASE read and note new bullets on a few of these. Thanks.
(Maggie and Brad)

Flint Drinking Water Action Plan
Talking Points

Overall Messaging

- Repeated testing shows the water leaving Flint's drinking water system is safe to drink and meets all federal guidelines, including lead.
- After the switching to the Flint River, the compliance testing protocol yielded results of 6 ppb in December 2014 and 11 ppb in June 2015, which forces the city to complete its corrosion control optimization.
- However, we recognize some residents experience higher levels of lead in the water that comes out of their faucets because of lead plumbing in the home, and that's a concern.
- Out of an abundance of caution, we want to address the needs of all Flint families, and so we have developed an action plan that includes both short- and long-term solutions.
- The state plan focuses on increasing water testing, offering additional precautions for families, and providing long-term solutions to address the city's water infrastructure.

Messaging regarding the action plan

The city and the state are working together to gather more data to ensure the water that leaves the treatment plant as well as the water that arrives in Flint homes is safe for all residents.

- **Immediately test Flint public schools to ensure that drinking water is safe. Testing will also be available at no cost to any other school in Flint.**
    - Although Flint's drinking water meets all federal requirements, the state wants to take extra steps to ensure that drinking water is safe for the city's children.
    - The state will fund this testing (about $30,000) at no cost to the city or the local schools, and make the results publicly available.

- **Expand health exposure testing of individual residences.**
    - To double-check its data as well as provide residents with an additional layer of assurance, the DEQ will conduct more tests at Flint properties.
    - The Technical Advisory Committee will determine the scope of this expanded testing.

- **Offer water testing at no cost to Flint residents to assure water is safe.**
    - Although all testing indicates water in the city of Flint meets all federal standards, we understand some residents are concerned.
    - To ensure water in individual homes is safe, free water testing is available to all Flint residents.
    - We encourage anyone with a concern to get their water tested.
    - Contact the city water department to have your water tested.

- **Accelerate optimizing corrosion controls in the Flint drinking water system.**

- A fully optimized corrosion control system means the insides of pipes are coated to minimize the amount of lead that enters the drinking water after it leaves the treatment plant.
- This is a helpful step that can minimize lead exposure system-wide, and we're pleased the city is moving to take this step.
- If asked: Phosphate was not initially required because the city was using a lime softener, one of many corrosion control options, while they performed federally required rounds of water tests to determine their optimization options and needs.

- **Expand the "Safe Drinking Water Technical Advisory Committee" to ensure the best technology, practices and science are being utilized, and add an expert from the EPA's Office of Research and Development to the group.**
  - The Safe Drinking Water Technical Advisory Committee will meet Oct. 7 to discuss fully optimizing the corrosion control system, expanding testing of at-risk properties, and other topics.
  - Tom Burke, the Deputy Assistant Administrator of EPA's Office of Research and Development as well as the EPA's Science Advisor, will participate on the committee. Prior to joining EPA, he held prominent positions at the Johns Hopkins Bloomberg School of Public Health and founded the Johns Hopkins Risk Sciences and Public Policy Institute. He brings substantial expertise, and we're pleased he is able join the committee.

- **Accelerate water system improvements to address replacement of lead service lines.**
  - Regardless of the drinking water source – whether it be DWSD, the Flint River or Lake Huron – the only permanent fix for lead is to replace the private lead service lines in the city. These are the lines on private property that lead from the curb to individual homes.
  - This is a problem in communities statewide, and one we want to address with a long-term solution.
  - The state and EPA are working with Congressman Kildee to find a way for the city to access Drinking Water Revolving Loan funds for this work.

- **Expedite completion of Karegnondi Water Authority.**
  - The move to the Flint River was always a temporary measure until the connection to the KWA and to Lake Huron was completed.
  - This is the ultimate goal of the venture, and the state and locals will work together to speed up completion of the connection.

- **Name Dr. Eden Wells as Flint Drinking Water Public Health Advisor.**
  - Dr. Wells is the Director for the Preventive Medicine Residency at the University of Michigan School of Public Health in Ann Arbor as well as the Chief Medical Executive for MDHHS.

- She brings years of experience in epidemiology and preventative medicine to the issue, and we're thrilled to have her expertise.
- Dr. Wells will coordinate with Hurley Medical Center to share data on blood lead levels in children, as well as address other emerging issues.

- **Provide water filters to residents of Flint.**
  - As an additional precaution, water filters will be available to Flint water customers.
  - This provides another safeguard to ensure everyone in the city of Flint has access to clean drinking water they feel confident drinking, cooking, or using for formula.

- **Expand a comprehensive lead education initiative.**
  - Lead plumbing is common in homes built prior to 1986, and anyone in the state with lead pipes in their home can take some extra precautions to minimize lead in their drinking water.
  - It takes time for lead to accumulate in drinking water from plumbing, and so flushing your pipes prior to using them can minimize your exposure.
    - To flush your pipes, run the water until it is as cold as it will go. This can take as little as 5 to 30 seconds if you have recently flushed the toilet or otherwise used water in your home, or as long as 2 to 5 minutes if you have not used any water in hours.
    - In the city of Flint, running the water for 5 minutes only costs about 3-16 cents, depending on your faucet.
  - Additionally, more lead gets into hot water than cold water. Use only cold water for drinking, cooking and making baby formula.

From: Eisner, Jennifer (DHHS)
Sent: Friday, October 02, 2015 10:24 AM
To: Wurfel, Sara (GOV); Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ); Murray, David (GOV); Minicuci, Angela (DHHS); Lasher, Geralyn (DHHS)
Subject: Fw: Nick's Talking Points
Attachments: LYON Flint Water Talking Points 100215.docx; Flint Water Talking Points 100215.docx

Updated talking points -- we've removed mention of vouchers... details still being worked out.

From: Eisner, Jennifer (DHHS)
Sent: Friday, October 2, 2015 10:19 AM
To: Grijalva, Nancy (DHHS)
Cc: Lyon, Nick (DHHS); Lasher, Geralyn (DHHS); Wells, Eden (DHHS)
Subject: Nick's Talking Points

Nancy -- Please have Nick use these!

With the evolving filter situation, the talking points have been updated. Please note that in Nick's talking points, State Disability Assistance (SDA) has been added to the list of programs that will be eligible for filters.

The general talking points have been updated as well.

Thank you,
Jennifer

Director Nick Lyon Flint Water Press Conference Talking Points
October 2, 2015

- In addition to the points raised by DEQ in protecting the health of Flint residents, the Michigan Department of Health and Human services have also begun taking steps to reduce and prevent lead exposure for Flint families.
- Our first action item is to work closely with our public and private partners to provide water filters to Flint residents and our MDHHS clients in Flint.
- To meet this priority, the governor has identified one million dollars in state funding to purchase water filters for Flint residents.
- Additionally, through department emergency funds, we are working to provide National Sanitation Foundation (NSF) certified water filters to residents who are active Family Independence Program (FIP), Food Assistance Program (FAP), Child Development and Care (CDC), State Disability Assistance (SDA) or Social Security Insurance (SSI) recipients.
- We have already begun working with the local United Way to provide filters to residents receiving WIC benefits.
- We are in discussions with local retailers and will share additional information about where residents can go to purchase filters as soon as those details have been finalized.
- Our next step in the state action plan is to educate families about the steps they can take to reduce all lead exposures in their home.
- Lead exposure can occur from a number of different sources such as paint, gasoline, solder, and consumer products and through different pathways such as air, food, water, dust, and soil.
- Although there are several exposure sources, lead-based paint is still the most widespread and dangerous high-dose source of lead exposure for young children in the US and Michigan.
- We will be working to educate all Flint families on steps that they can take to reduce any and all lead exposures in and around their homes.
- And lastly, Gov. Rick Snyder has named Dr. Eden Wells as the Flint Drinking Water Public Health Advisor.
- In addition to the action plan, zip code-level data does show that there has been an increase in elevated childhood blood lead levels in specific communities.
- Initial analysis of MDHHS data found that blood lead levels of children in Flint have followed an expected seasonal trend.
- While this analysis for Flint as a whole remains true, after a comprehensive and detailed review down to the zip code level, MDHHS data state analysis is consistent with that presented by Hurley Children's Hospital.
- We cannot conclusively say that the water source change is the sole cause of the increase, but this analysis supports our efforts as we take active steps to reduce all potential lead exposures in Flint.

- I'd like to now ask Dr. Eden Wells, MDHHS Chief Medical Executive and the Flint Drinking Water Public Health Advisor to provide an overview of the data analysis.

Blood Lead Levels in Flint Talking Points
October 1, 2015

- Initial analysis of MDHHS data found that blood lead levels (BLLs) of children in Flint have followed an expected seasonal trend; due to small numbers further analysis was initiated.
- While this analysis of blood lead levels in Flint as a whole remains true, after a comprehensive and detailed review down to the zip code level, we have found that the state analysis is consistent with that presented by Hurley.
- Director Lyon is working closely with DEQ and the administration to take active steps to reduce all potential lead exposures in Flint, and across the state.
- Our Chief Medical Executive has been in communication with the lead investigator at Hurley Children's Hospital, and we continue to work with Hurley, the city of Flint, local and state leaders to verify and analyze data trends.
- Zip code-level data does show that there has been an increase in elevated childhood blood lead levels in specific communities.
    - This does not conclusively mean that the water source change is the sole cause of the increase, but data does show an association.
    - There is an increased proportion of children with elevated Blood Levels (ELBs) in several zip codes, particularly 03 and 04. These appear to have increased over the last 1.5 years.
    - Lead exposure can occur from a number of different sources (such as paint, gasoline, solder, and consumer products) and through different pathways (such as air, food, water, dust, and soil).
    - Although there are several exposure sources, lead-based paint is still the most widespread and dangerous high-dose source of lead exposure for young children in the US and Michigan.
- We reviewed MDHHS statewide data using the same methodology used by Hurley, looking at our numbers by zip code and age ranges, and filtering out non-Flint children.
- Routine surveillance of blood lead levels does not analyze data down to the zip code level. Detailed analysis like this occurs when there is reason to focus in on precise locations or populations.
- MDHHS will be working closely with the Michigan Department of Environmental Quality, Hurley Children's Hospital, the Genesee County Health Department, and community organizations to initiate further action steps.
- We understand that cost may be a barrier to following the recommendations of the local health department. We are actively working with public and private partners to make resources available to those who may need assistance.
- MDHHS is recommending that residents follow the Public Health Advisory issued by the Genesee County Health Department, as well as take further steps to reduce exposures to all forms of lead in and around their homes.

MDHHS Stats and Facts

- 'High Risk' Zip codes (48503 and 48504)
    - Blood lead level rates among children under six years of age in the high risk zip codes (48503, 48504) were 2.7 times higher than the rest of Genesee County before the switch to Flint River Water.
    - After the switch to Flint River Water, rates in the high risk Zip codes were 3.2 times that of the rest of Genesee County.
- Other Zip codes in Flint
    - Rates of elevated blood lead levels among children under six years of age in other parts of the city of Flint were 2 times that of the rest of Genesee County before the switch to Flint River Water.
    - The magnitude of the elevated rate remained roughly the same during the period after the water source switch.
- Lead abatement through MDHHS was federally funded up until FY14 when Michigan began providing additional funds to abate homes.
- In FY14, $1.25M General Fund was added. In FY15, General Fund was bumped up to $1.75M and FY16, General Fund remains at $1.75M.

Water Filters

- Our first action item is to work closely with our public and private partners to provide water filters to Flint residents and MDHHS clients.
- To meet this priority, the governor has identified one million dollars in state funding to purchase water filters for Flint residents.
- Given the questions and concerns regarding the change in water source in Flint, MDHHS has authorized the use of emergency services funding to provide water filters for MDHHS clients receiving assistance in the city of Flint.
- We are pursuing a plan for clients who are active Family Independence Program (FIP), Food Assistance Program (FAP), Child Development and Care (CDC), State Disability Assistance (SDA), State Disability Assistance (SDA), or Social Security Insurance (SSI) to that they can obtain filters that are National Sanitation Foundation (NSF) certified to remove lead and ANSI Standard 53.
- We are in discussions with local retailers and will share additional information about where residents can go to purchase filters as soon as those details have been finalized.

- MDHHS currently serves approximately 25,000 households in Flint.

Reducing and Removing Lead Exposure

- In housing built before 1978, it can be assumed that the paint has lead unless tests show otherwise.
- Make sure your child does not have access to peeling paint or chewable surfaces painted with lead-based paint.

- Children and pregnant women should not be present in housing built before 1978 that is undergoing renovation. They should not participate in activities that disturb old paint or in cleaning up paint debris after work is completed.
- Create barriers between living/play areas and lead sources. Until environmental clean-up is completed, you should clean and isolate all sources of lead.
    - Close and lock doors to keep children away from chipping or peeling paint on walls. You can also apply temporary barriers such as contact paper or duct tape, to cover holes in walls or to block children's access to other sources of lead.
- Regularly wash children's hands and toys. Hands and toys can become contaminated from household dust or exterior soil. Both are known lead sources.
- Regularly wet-mop floors and wet-wipe window components. Because household dust is a major source of lead, you should wet-mop floors and wet-wipe horizontal surfaces every 2-3 weeks.
    - Windowsills and wells can contain high levels of leaded dust. They should be kept clean. If feasible, windows should be shut to prevent abrasion of painted surfaces or opened from the top sash.
- Take off shoes when entering the house to prevent bringing lead-contaminated soil in from outside.
- Prevent children from playing in bare soil; if possible, provide them with sandboxes. Plant grass on areas of bare soil or cover the soil with grass seed, mulch, or wood chips, if possible.
    - Until the bare soil is covered, move play areas away from bare soil and away from the sides of the house. If you have a sandbox, cover the box when not in use to prevent cats from using it as a litter box. That will help protect children from exposure to animal waste.
- Avoid using makeup, containers, cookware, or tableware to store or cook foods or liquids that are not shown to be lead free.
- Remove recalled toys and toy jewelry immediately from children.
- Use only cold water from the tap for drinking, cooking, and making baby formula. Hot water is more likely to contain higher levels of lead. Most of the lead in household water usually comes from the plumbing in your house, not from the local water supply.
- Shower and change clothes after finishing a task that involves working with lead-based products such as stained glass, making bullets, or using a firing range.

WIC Children

- There are 855 infants participating in WIC in Flint.
- We are working with partners at the United Way to ensure that WIC families have access to water filters and bottled water.
- In homes with infants on WIC, if the household has documentation from an official source of unsanitary water supply issues, that family may be eligible to receive ready-to-feed formula. Families should contact WIC to see if they are eligible.

- Each household would have to be looked at on an individual basis.
- WIC cannot cover bottled water.

Background

- The results of the Hurley Children's Hospital were reviewed by MDHHS after the study was released last week.
- The analysis that Hurley conducted was different from the initial MDHHS data regarding blood lead levels in Flint.
- MDHHS initial data looked at the entire blood lead levels for the Flint area for the past five years and showed the annual seasonal trends in the area.
- Seasonal exposure is higher in the summer for a variety of reasons including children playing outside in the soil, and when windows are open and lead paint is more likely to be in the air. Further, seasonal variations in water can occur due to changes in temperature, pH , and other factors

From: Kaffer, Nancy <nkaffer@freepress.com>
Sent: Friday, October 02, 2015 12:06 PM
To: Wurfel, Sara (GOV)
Subject: Follow-up questions

Importance: High

- Reviewing my notes, I'm not sure I got a definitive answer from Wyant about corrosion control at the Flint water treatment plant.
  Was corrosion control in use? I'd like a simple yes or no, here – if no, obviously, why not – if yes, what was it, and why was – if any – what sounds like a lesser degree of corrosion control being used? I would like the names of the specific technologies/chemicals that were in use in the past, if in fact corrosion control was being used at the Flint plant, and the specific technologies that will be used going forward.
- Was the MDEQ unaware that there were aging lead service lines in Flint, and that those would increase the lead risk? Were the Flint water treatment folks? Why was this not taken into account in developing the water treatment count?
- Wyant said that "two consecutive back to back tests" showed there was a problem; when were those tests performed and when were the results available?

Obviously I would like to use this information in a piece we'll have ready to go at 1:30p so ASAP would be great.

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Pallone, Maggie (DEQ)
Sent: Friday, October 02, 2015 1:20 PM
To: Wurfel, Sara (GOV)
Cc: Wyant, Dan (DEQ); Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ)
Subject: Re: Follow-up questions

The answers are below.

On Oct 2, 2015, at 12:31 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

Sent from my iPhone

Begin forwarded message:

From: "Kaffer, Nancy" <nkaffer@freepress.com>
Date: October 2, 2015 at 12:05:53 PM EDT
To: "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>
Subject: Follow-up questions

- Reviewing my notes, I'm not sure I got a definitive answer from Wyant about corrosion control at the Flint water treatment plant.
  Was corrosion control in use? I'd like a simple yes or no, here – if no, obviously, why not – if yes, what was it, and why was – if any – what sounds like a lesser degree of corrosion control being used? I would like the names of the specific technologies/chemicals that were in use in the past, if in fact corrosion control was being used at the Flint plant, and the specific technologies that will be used going forward.

The plant was using a lime as a means of minimizing corrosion, which is an recognized corrosion control treatment by EPA. The two consequent monitoring results from December 2014 and June 2015 while meeting the action level were deemed optimal and were in fact increasing. As such the State sent s letter in August to require further optimization. We understand the City is going to use orthophosphate to fully optimize its system and that will happen this month.

- Was the MDEQ unaware that there were aging lead service lines in Flint, and that those would increase the lead risk? Were the Flint water treatment folks? Why was this not taken into account in developing the water treatment count?

The DEQ and City were aware that Flint, and many other older communities, has lead service lines. It was the City's decision to use lime as its first treatment option and to monitor to see its effectiveness. In some communities this treatment has been effective corrosion control.

- Wyant said that "two consecutive back to back tests" showed there was a problem; when were those tests performed and when were the results available?

Those test were performed in the six months leading up to Dec. 2014 and again June 2015. The results were made available to the residents that were tested, the City, and all testing results will soon be made available on the Flint water website the state has created. They overall results have always been available in the City's compliance documents.

> Obviously I would like to use this information in a piece we'll have ready to go at 1:30p so ASAP would be great.

_____
Nancy Kaffer
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Detroit Free Press
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@nancykaffer, @abettermi

From: Ryan Felton <ryanfelton13@gmail.com>
Sent: Friday, October 02, 2015 2:17 PM
To: Murray, David (GOV); Wurfel, Sara (GOV); Wurfel, Brad (DEQ)
Subject: Re: Confirm details of teleconference?

Hi David, et. al:

DEQ's Wyant said this afternoon the city used corrosion controls to treat the water post-switch from DWSD. Can you tell me what agents were used, and when?

Thanks much,
Ryan

On Fri, Oct 2, 2015 at 1:45 PM, Murray, David (GOV) <MurrayD1@michigan.gov> wrote:
It was a small group given the time limits we were facing. Will be sure to keep you in mind.

Sent from my iPhone

On Oct 2, 2015, at 1:44 PM, Ryan Felton <ryanfelton13@gmail.com<mailto:ryanfelton13@gmail.com>> wrote:

OK. Would appreciate any notification of such a conference call in the future. Thanks much!

On Fri, Oct 2, 2015 at 1:40 PM, Murray, David (GOV) <MurrayD1@michigan.gov<mailto:MurrayD1@michigan.gov>> wrote:
Reconnecting is an option that the city can consider.

Sent from my iPhone

On Oct 2, 2015, at 1:32 PM, Ryan Felton <ryanfelton13@gmail.com<mailto:ryanfelton13@gmail.com><mailto:ryanfelton13@gmail.com<mailto:ryanfelton13@gmail.com>>> wrote:

Hi David,

I wanted to see if you could confirm reported details of the teleconference call this morning, in that Flint might reconnect with Detroit water?

Additionally, was this a call open to the media? It would've been nice to be on that call.

Best,

Ryan Felton
Journalist
Detroit, MI
734.353.2221<tel:734.353.2221>
ryanfelton.tumblr.com<http://ryanfelton.tumblr.com><http://ryanfelton.tumblr.com>

Twitter: @ryanfelton13

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Twitter: @ryanfelton13

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ryanfelton.tumblr.com
Twitter: @ryanfelton13

From: Eisner, Jennifer (DHHS)
Sent: Friday, October 02, 2015 5:36 PM
To: Eggert, David
Cc: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: RE: $1M

Hi Dave --

I know we just chatted, but to reiterate, the $1 million in funding was identified to serve Flint residents in addition to those we are able to provide filters with through MDHHS emergency funds. The MDHHS emergency funds must be used to support people who are active Family Independence Program (FIP), Food Assistance Program (FAP), Child Development and Care (CDC), State Disability Assistance (SDA) or Social Security Insurance (SSI) recipients.

In terms of distributing the $1 million in filters more broadly, that policy is actively being worked out --those details and logistics will be made publicly available as soon as they're finalized.

Thank you, and be in touch again soon.

Best,

Jennifer (Smith) Eisner
Public Information Officer
Michigan Department of Health and Human Services
517-241-2112

From: Eggert, David [mailto:DEggert@ap.org]
Sent: Friday, October 02, 2015 5:14 PM
To: Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>
Cc: Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: $1M

OK. Quick follow-up -- are filters for residents and businesses? And can people get more than 1 per house?

From: Eisner, Jennifer (DHHS) [mailto:EisnerJ@michigan.gov]
Sent: Friday, October 02, 2015 4:00 PM
To: Eggert, David
Cc: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: Re: $1M

We're still determining the quantities needed, associated costs, and purchasing process. Director Lyon is commited to ensuring that our clients can obtain filters and have safe drinking water.

From: Eggert, David <DEggert@ap.org>
Sent: Friday, October 2, 2015 3:18:09 PM
To: Eisner, Jennifer (DHHS)
Cc: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: RE: $1M

Jennifer,

How much are you spending for the people on public assistance to get filters?

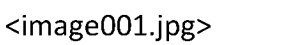
From: Eisner, Jennifer (DHHS) [mailto:EisnerJ@michigan.gov]
Sent: Friday, October 02, 2015 12:46 PM
To: Eggert, David
Subject: Re: $1M

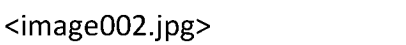
Hey Dave- We are currently working with retailers on pricing and the purchasing process. Based on where we are in those discussions, our partnerships with community organizations, and MDHHS emergency funds, we feel confident that Flint residents will have access to filters.

Sent from my iPhone

On Oct 2, 2015, at 11:52 AM, "Eggert, David" <DEggert@ap.org> wrote:

> How many water filters can you buy with $1M? Thx.





David Eggert
State government reporter

215 S. Washington Square, Suite 170
Lansing, MI 48933
T 517-482-8011
M [redacted]

deggert@ap.org
www.ap.org

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[IP_US_DISC]

msk dccc60c6d2c3a6438f0cf467d9a4938

From: Kaffer, Nancy <nkaffer@freepress.com>
Sent: Monday, October 05, 2015 3:41 PM
To: Wurfel, Brad (DEQ)
Cc: Wurfel, Sara (GOV); Wisely, John
Subject: RE: Follow-up questions

Thanks, Brad. Also, I would find it helpful -- and probably John would, as well -- if someone from MDEQ could walk us through the state's process of signing off on a local water treatment plan.

Nancy Kaffer
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@nancykaffer, @abettermi

From: Wurfel, Brad (DEQ) [mailto:WurfelB@michigan.gov]
Sent: Monday, October 05, 2015 3:13 PM
To: Kaffer, Nancy <nkaffer@freepress.com>
Cc: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Wisely, John <jwisely@freepress.com>
Subject: Re: Follow-up questions

Nancy, saw a response Friday and thought it went to you. Will find and forward that asap.
Thanks
b

Sent from my iPhone

On Oct 5, 2015, at 2:49 PM, Kaffer, Nancy <nkaffer@freepress.com> wrote:

> Hi Sara -- sent these last week and got no response. Figured some of these are MDEQ questions, so I'm adding Brad onto the list, here.
>
> ASAP would be great.
>
> Thanks!
>
> N
>
> Nancy Kaffer
> Columnist
> Detroit Free Press
> www.freep.com/abettermichigan
> 313-222-6585
> @nancykaffer, @abettermi

From: Kaffer, Nancy
Sent: Friday, October 02, 2015 12:06 PM
To: 'Wurfel, Sara (GOV)' <Wurfels@michigan.gov>
Subject: Follow-up questions
Importance: High

- Reviewing my notes, I'm not sure I got a definitive answer from Wyant about corrosion control at the Flint water treatment plant.
  Was corrosion control in use? I'd like a simple yes or no, here – if no, obviously, why not – if yes, what was it, and why was – if any – what sounds like a lesser degree of corrosion control being used? I would like the names of the specific technologies/chemicals that were in use in the past, if in fact corrosion control was being used at the Flint plant, and the specific technologies that will be used going forward.
- Was the MDEQ unaware that there were aging lead service lines in Flint, and that those would increase the lead risk? Were the Flint water treatment folks? Why was this not taken into account in developing the water treatment plan?
- Wyant said that "two consecutive back to back tests" showed there was a problem; when were those tests performed and when were the results available?

Obviously I would like to use this information in a piece we'll have ready to go at 1:30p so ASAP would be great.

Nancy Kaffer
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From: Ronald Fonger <RFONGER1@mlive.com>
Sent: Tuesday, October 06, 2015 9:23 AM
To: Wurfel, Sara (GOV)
Subject: RE: governors team

Sorry. Looks like my paste didn't work.
We had a story last night based in large part on the news release from HHS.
http://www.mlive.com/news/flint/index.ssf/2015/10/whats_next_for_water_filter_di.html
Here's a link to the WJRT story about reconnecting to Detroit. The last line of the story says "members of the state team handling the water crisis will be in Flint on Tuesday to work with local leaders on how to move forward."
http://www.abc12.com/home/headlines/Detroit-willing-to-negotiate-with-Flint-on-a-return-to-its-water-system-330757612.html
Thanks for your help.

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Tuesday, October 06, 2015 9:14 AM
To: Ronald Fonger
Subject: RE: governors team

Sorry, Ron, I can't see any of the text below after "WJRT is reporting" … other than "water crisis." What's the Q?

Though you know the state team will start today its distribution of water filters at both DHHS offices for state assistance clients and through GCARD offices for any other Flint resident, yes?

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Tuesday, October 06, 2015 9:08 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: governors team

Sara:
Can you fill me in on what's happening in Flint today?
WJRT is reporting **"Members of the state's team handling the** water crisis**" will be in Flint on Tuesday to work with local leaders on how to move forward."**
Thanks for your help

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Lasher, Geralyn (DHHS)
Sent: Tuesday, October 06, 2015 1:24 PM
To: Eisner, Jennifer (DHHS); Wurfel, Sara (GOV)
Cc: Minicuci, Angela (DHHS)
Subject: RE: Flint Water Filters

Great job. Thanks for being there to handle all the on the ground.

From: Eisner, Jennifer (DHHS)
Sent: Tuesday, October 06, 2015 12:25 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>
Subject: Re: Flint Water Filters

Sheryl and Dan both talked on camera with ABC 12

Sent from my iPhone

On Oct 6, 2015, at 12:14 PM, "Wurfel, Sara (GOV)" <Wurfels@michigan.gov> wrote:

> Good. Also going to visit one of the offices distributing filters and/or talking with Sheryl Thompson?
>
> ---
>
> **From:** Eisner, Jennifer (DHHS)
> **Sent:** Tuesday, October 06, 2015 12:10 PM
> **To:** Wurfel, Sara (GOV) <Wurfels@michigan.gov>
> **Cc:** Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>
> **Subject:** Re: Flint Water Filters
>
> Dan is being interviewed now. They've talked to a few residents
>
> Sent from my iPhone
>
> On Oct 6, 2015, at 11:47 AM, "Wurfel, Sara (GOV)" <Wurfels@michigan.gov> wrote:
>
> > Also, what is status of interview time and arrangements with CBS Evening News? Please keep us posted on those details too.
> >
> > Thx!
> >
> > ---
> >
> > **From:** Wurfel, Sara (GOV)
> > **Sent:** Tuesday, October 06, 2015 11:42 AM
> > **To:** Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>
> > **Cc:** Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>
> > **Subject:** RE: Flint Water Filters

Very helpful. Thx much.

What is anticipated cost of filter cartridge replacement?

Also, we're needing to send the Governor daily updates for his briefing on this issue. Would be great to have recap of today's first distribution by 4 p.m. -- how went, how many given out/clients served, overall reax/reception, etc. And anything else of note that's important or key.

From: Eisner, Jennifer (DHHS)
Sent: Tuesday, October 06, 2015 11:37 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>
Subject: Fwd: Flint Water Filters

FYI

Sent from my iPhone

Begin forwarded message:

> **From:** "Thompson, Sheryl D. (DHHS)" <ThompsonS2@michigan.gov>
> **Date:** October 6, 2015 at 11:33:56 AM EDT
> **To:** "Eisner, Jennifer (DHHS)" <EisnerJ@michigan.gov>
> **Cc:** "Lasher, Geralyn (DHHS)" <lasherg@michigan.gov>, "Hertel, Elizabeth (DHHS)" <HertelE@michigan.gov>, "Minicuci, Angela (DHHS)" <MinicuciA@michigan.gov>
> **Subject: Re: Flint Water Filters**
>
> Yes we are doing filter replacements. This is why we are verifying addresses and contact numbers in a database in addition to the types of water filters residents received.
>
> I'm on my way back to Lippincott right now.
>
> Sheryl Thompson
> Deputy Director of Field Ops
> 517-241-5954
>
> On Oct 6, 2015, at 11:31 AM, Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov> wrote:
>
> > Do we have an answer on this?
> >
> > Sent from my iPhone
> >
> > Begin forwarded message:

From: "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
Date: October 6, 2015 at 11:21:02 AM EDT
To: "Eisner, Jennifer (DHHS)" <EisnerJ@michigan.gov>
Subject: Fwd: Flint Water Filters

You taking these calls?

Sent from my iPhone

Begin forwarded message:

> **From:** Stephanie Parkinson <sparkinson@sbgtv.com>
> **Date:** October 6, 2015 at 11:04:15 AM EDT
> **To:** "WurfelB@michigan.gov" <WurfelB@michigan.gov>
> **Subject: Flint Water Filters**
>
> Brad,
>
> We are being told the free water filters for people living in Flint must be replaced after 100 gallons. What happens after that, will there be replacement filters handed out when that need arises?
>
> Thanks.
>
> **Stephanie Parkinson**
> Anchor/Reporter
> NBC25
> Flint, Michigan
>
> **Newsroom:** 810-687-9600
> **Twitter:** StephaniePNews

<image001.jpg>

From: Wurfel, Brad (DEQ)
Sent: Tuesday, October 06, 2015 5:01 PM
To: Stephen Carmody
Subject: RE: A question about flint school water testing

We are working on it. The complete results will be announced this week.
b

From: Stephen Carmody [mailto:sgcarmod@umich.edu]
Sent: Tuesday, October 06, 2015 4:32 PM
To: Wurfel, Brad (DEQ)
Subject: A question about flint school water testing

Brad,

Have the tests on water in Flint schools complete yet?

Steve Carmody
Michigan Radio

From: Wurfel, Brad (DEQ)
Sent: Tuesday, October 06, 2015 8:59 PM
To: Wurfel, Sara (GOV)
Subject: Fwd: MIRS.

Sent from my iPhone

Begin forwarded message:

From: "Holton, Jennifer (MDARD)" <holtonj@michigan.gov>
Date: October 6, 2015 at 8:09:39 PM EDT
To: "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
Subject: MIRS.

Old Water Pipes Not Just A Flint Issue

Flint's lead-tainted water has refocused attention on something usually buried in the minds of the public: The water supply, and how it's piped into homes.

"Potholes you can see when you hit them. You see a rusted-out bridge," said Pat **LINDEMANN**, drain commissioner of Ingham County, who referred to water pipes as the orphan child of infrastructure.

While much has been made of the state's roads and efforts to pump more funds into them, some experts have portrayed the aging water infrastructure across the state as underfunded and decades behind in repair and replacement.

Not only that, but some officials concede there are instances where local governments have no idea what condition their systems are in or even where they're located underground.

"We have a lot of old infrastructure under there and half the time -- most of the time -- we're clueless as to exactly where it is," Lindemann said, after describing an instance when the county discovered some wooden water pipes running beneath a section of Old Town in Lansing.

The American Society of Civil Engineers bestowed Michigan's roads with a "D" grade in areview of the state's infrastructure. Also receiving substandard grades were Michigan's drinking water (D) and wastewater (C).

This is despite the state being surrounded by some of the cleanest sources of water in the country, said James **CLIFT**, policy director of the Michigan Environmental Council (MEC).

Yet the issue is often the old infrastructure the water runs through.

"Literally, around the state, we have water supply systems that can range anywhere from 50 to 100 years old," said Mike **NYSTROM**, executive vice president of the Michigan Infrastructure

and Transportation Association (MITA). "We can literally show you pictures of some of them, people would be horrified."

People have also been horrified about what they've seen coming out of their taps in Flint, attributed in part to the lead water pipes that run into homes from the main system (See "State Plan For Flint Water Includes More Testing, $1 Million For Filters," 10/2/15).

Cities with older homes are likely to have these lead pipes still, said Gary **MEKJIAN**, director of public services for Farmington Hills, and also leader of the Michigan Municipal League's internal transportation and infrastructure committee.

Mekjian said some communities have removed many lead pipes from the public right-of-way, but like what happened in Flint, the lead pipes beneath some private properties haven't been addressed.

In many cases, the portion of the pipe underneath a person's property that runs into the house belongs to that person, but there are some who believe that burden should fall to the public utility to dig up and replace.

"I think it's part of the public utility," Clift said, adding that when it comes to electric utilities, no one is arguing the line from the telephone pole to the house is the landowner's responsibility to maintain.

The state plan issued last week in response to the Flint water fallout mentioned accelerating water system improvements to replace lead service lines.

One way the state may go about that is looking into rule or law changes for a fund that has typically been allowed for use only on municipal projects on the main water line, according to the Michigan Department of Environmental Quality (DEQ).

Another issue is that governments are behind on evaluating the condition of their water pipes and infrastructure.

Clift referenced the "rudimentary" process by which Flint tracks homes with lead pipes, according to media reports, the city keeps that information on a series of 45,000 index cards.

"There's a lot of information about this stuff we don't even know," Lindemann said. "When they put it in the ground, a lot of this stuff wasn't even mapped. We don't even know exactly where it is."

As Mekjian said, a government can't manage something until it understands what it has, so that's step one.

"Once folks across the state are able to see how bad the systems are across the state, we look to have some statewide funding mechanism put in place," Nystrom said.

The state has tried to jump-start this review process for locals through its Stormwater, Asset Management and Wastewater (SAW) grant program, which originated from legislation signed into law in 2013.

These grants help locals develop asset management plans for wastewater and stormwater

systems, among other uses, according to the DEQ.

But once that's established, next comes funding, which historically has struggled to keep up with the actual needs of these systems.

Several experts described a pattern that has followed the financial support of water infrastructure: Even from the time of the Civil War through the 20th century, the federal government paid for some big projects.

But when the locals gained control of these systems, they didn't implement the kind of rates that could support the upkeep long-term.

"The ability of a water system to levy the appropriate amount of fees so that it can . . . implement the appropriate capital improvements . . . is absolutely critical," Mekjian said. "You can't have politicians trying to keep water and sewer rates artificially low to meet their agenda. You just can't do it."

Sent from my iPhone

From: Wurfel, Brad (DEQ)
Sent: Wednesday, October 07, 2015 12:28 PM
To: Wurfel, Sara (GOV); Tommasulo, Karen (DEQ)
Cc: Lasher, Geralyn (DHHS); Eisner, Jennifer (DHHS)
Subject: Document1
Attachments: Document1.docx

Here's a first cut at some talking points. Give me your thoughts and edits. G, I know you guys are doing the detailed TPs on schools stuff, I just put that section in there mostly as a placeholder.
b

Talking points on water source switch for Flint

On Oct. 7, The City of Flint's water quality technical advisory convened to review the City's plan for optimizing corrosion control in the Flint water system. At that meeting, the group of technical experts unanimously recommended that the City should return to Detroit's water supply until the KWA is completed.

The City of Flint estimates that, while it will cost them an additional $1.3 million per-month to use DWSD, the water supply is more stable and presents less challenge for city water managers to deliver quality drinking water.

The Mayor met with the Governor and Detroit officials to discuss a proposed $9.8 million agreement that will help the City return to DWSD and the state to conduct in-depth public health testing to protect Flint families and kids.

General tenants of the agreement (sources of money).

- $6 Million so Flint can reconnect to DWSD through June 2016 (total cost is $12 million, Flint will match the state's commitment).
- $1 Million for Filters as a precautionary protection for Flint residents.
- $1.5 Million for 10 additional staff to do community Lead Exposure Testing
- $1.3 Million for evaluating sample results at the state lab (each sample costs $26 to process)
- **HUMAN RESOURCES:** The state is requesting eight staff for DHHS and two staff for DEQ as part of an investigatory team to examine lead exposure in Flint schools and homes.

Announcement of testing results from Flint Schools

On Oct. 2, 13 Flint public schools were sampled for lead in drinking water. The results announced today indicate the need for a closer look at the schools.

- 37 total samples
- 4 samples exceeded the federal action plan of 15 parts per billion
- 1 result was a significant outlier necessitating further action

DEQ, DHHS and LARA will be taking a closer look at schools, and all Flint schools will now be tested.

Schools examined by the state so far did not have lead service lines. The building needs demand larger diameter service and the material is cast iron (?). It is likely interior plumbing in the buildings is the cause of any lead exposure, but the state is calling for a closer look at schools.

- Schools in Michigan that are part of a municipal supply historically are not tested for lead in drinking water.
- All schools in Flint will be tested.

- Until the testing and inspections are complete, schools are advised to continue using bottled water and filtration as a precaution to protect kids.
- The state will commit to helping schools identify on-premise sources of lead, but it is the schools' responsibility to take necessary actions to maintain their infrastructure.
- The state's commitment to Flint schools is limited to Flint schools. Other Michigan schools are not eligible for free testing and plumbing inspection.

Continued testing of Flint Residences

Since the state announced Oct. 2 that concerned Flint residents should take advantage of free water testing, the state lab has received a growing collection of samples.

The first 100 samples have been processed.

The 90^{th} percentile of the first 100 samples was 10 parts per billion.

All residents who take part in free home testing will be sent their results.

From: Shekter Smith, Liane (DEQ)
Sent: Wednesday, October 07, 2015 1:53 PM
To: Wurfel, Brad (DEQ); Wurfel, Sara (GOV)
Subject: RE: two questions from Gov

Just a little clarification (I hope) -

Schools on municipally supplied water are not generally tested under the lead and copper rule unless there are not enough high priority sampling locations available to the water supply for sampling. High priority sampling sites are residential with lead service lines.

Schools that are on their own source of water (wells) are public water supplies (nontransient Noncommunity water supplies) and are sampled under the Safe Drinking Water Act lead and copper rule.

There are other regulatory agencies with oversight of schools including MDARD for their cafeteria operations and DLARA for plumbing.

From: Wurfel, Brad (DEQ)
Sent: Wednesday, October 07, 2015 1:45 PM
To: Wurfel, Sara (GOV)
Cc: Shekter Smith, Liane (DEQ)
Subject: RE: two questions from Gov

Liane, please correct me if I've got this wrong …

In short, I believe the answer I'm going to be able to confirm yet today is that the schools have never been tested.

There is no requirement in statute for the testing of schools for lead or copper if they're using the municipal service as their supply (statute presumes they are covered same as homes by the surveillance monitoring done on households).

If the school is on its own well, it undergoes testing as a sole source.
b

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 1:27 PM
To: Pallone, Maggie (DEQ); Wurfel, Brad (DEQ)
Subject: FW: two questions from Gov

#1 is the Q I asked about yesterday. The Governor is still very much expecting – and we need – an answer to this Q. (And what is requirement or statute, or standard, or isn't there one?)

Thanks!

From: Agen, Jarrod (GOV)
Sent: Wednesday, October 07, 2015 1:19 PM

To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: two questions from Gov

1) What is our Comms response to the question: What happens in rest of the state regarding water testing in schools?

2) Gov is meeting with SML and Speaker this afternoon, but when do we inform Ananich and Greimel? On this one, I assume we are inviting Ananich tomorrow morning and we can just tell Greimel at that same time, right? What time are we doing that?

From: Shekter Smith, Liane (DEQ)
Sent: Wednesday, October 07, 2015 2:19 PM
To: Wurfel, Sara (GOV); Wurfel, Brad (DEQ)
Subject: RE: two questions from Gov

Schools are typically served by large (4-inch) service lines. These are typically other materials, not lead.

Liane J. Shekter Smith, P.E., Chief
Office of Drinking Water and Municipal Assistance
Michigan Department of Environmental Quality
517-284-6543

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 1:54 PM
To: Wurfel, Brad (DEQ)
Cc: Shekter Smith, Liane (DEQ)
Subject: RE: two questions from Gov

Didn't you say something about past statute presumed that they had already switched from lead service lines?

What about a new school opening or changing hands? At beginning of each school year?

From: Wurfel, Brad (DEQ)
Sent: Wednesday, October 07, 2015 1:45 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Shekter Smith, Liane (DEQ) <SHEKTERL@michigan.gov>
Subject: RE: two questions from Gov

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Sent: Wednesday, October 07, 2015 1:27 PM
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From: Pallone, Maggie (DEQ)
Sent: Wednesday, October 07, 2015 2:39 PM
To: Wurfel, Sara (GOV)
Cc: Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ); Wyant, Dan (DEQ); Lyon, Nick (DHHS); Lasher, Geralyn (DHHS); Muchmore, Dennis (GOV); Krisztian, George (DEQ)
Subject: Flint water outreach list
Attachments: Flint water phone calls.xlsx

Attached is the outreach list for announcement for tomorrow. Please note that Kildee has been assigned to Governor tonight, and Ananich tomorrow.

I was not sure who we were contacting for Local Public Health- Geralyn can you help fill in that piece?

My understanding is this the outreach for the lead in the schools, and that outside of legislators, we are not telling anyone about the DWSD deal. Are we telling all legislators about the DWSD deal, or just the leadership team?

Thanks,
Maggie

Maggie Pallone
Deputy Director
Policy and Legislative Affairs
Department of Environmental Quality
PPI (cell)
PalloneM@michigan.gov

	A	B	C	D	E	F
1	Flint Water Phone Calls					
2	**Name**	**Organization**	**Ph #**	**Assigned To**	**Day to Call**	**Time**
3	Brian Whistron	MDE	517-388-0427	Dan	Wednesday	3:00 PM
4	Heidi Washington	MDOC	517-242-6736	Dan	Wednesday	3:00 PM
5	Leadership Team			Gov	Wednesday	3:30 PM
6	Dayne Walling	City of Flint	810-280-7684	Gov/ Dan	Wednesday	12:30
7	Bilal Tawwab	Flint Superident of Schools	810-760-1249	Maggie	Thursday	8:30 AM
8		Local Public Health		Dr. Wells	Thursday	8:45 AM
9	Senator Hildenbrand	Senate Appropriations	517-282-4092	John	Wednesday	4:00 PM
10	Rep. Al Pscholka	House Appropriations	269-861-3092	John	Wednesday	4:00 PM
11	Jeff Wright	Genesee Co. Drain Commissioner	810-287-1925	Dan	Thursday	9:00 AM
12	Rep Neeley		810-423-0863	Dan	Thursday	9:30 AM
13	Rep Phelps		517-373-7515	Dan	Thursday	9:30 AM
14	Senator Ananich		810-348-1498	Gov	Thursday	9:30 AM
15	Congressman Kildee		202-815-0272	Gov	Wednesday	7:00 PM
16	Flint Ministers			Dennis	Thursday	
17	Mike Duggan	Detroit Mayor		Rich	Wednesday	Noon
18	Sue McCorminick	DWSD	313-999-5521	Dan	Wednesday	Noon
19	Rep Roger Victory	DEQ Approps	517-373-1830	Maggie	Thursday	9:45 AM
20	Senator Mike Green	DEQ Approps	989-550-7450	Maggie	Thursday	9:45 AM
21	Rep Chris Afendoulis	DHHS Approps	517-373-0218	Nick/ DHHS team	Thursday	9:45 AM
22	Senator Jim Marleau	DHHS Approps	517-373-2417	Nick/ DHHS team	Thursday	9:45 AM
23			248-891-6801			

From: Tommasulo, Karen (DEQ)
Sent: Wednesday, October 07, 2015 4:12 PM
To: Wurfel, Sara (GOV)
Subject: media faq
Attachments: 151008. Media Q&A.docx

Haven't fleshed it out yet, but this is what we've brainstormed.

Karen Tommasulo
Public Information Officer
Michigan Department of Environmental Quality
517-284-6716 | 517-599-5733
tommasulok@michigan.gov

Flint Drinking Water

Media Q&A

Oct. 8, 2015

Switch to Great Lakes Water Authority

What finally pushed the state to this decision?

Will this solve Flint's water crisis?

If you're saying residents will still have lead because of their plumbing, does that mean every other city in this state has a lead problem?

Where's the state getting the money to fund this?

Where's the city getting the money to fund this?

How long will the switch take?

How long will it take before Detroit's corrosion controls provide protection for Flint?

Why do residents still need to use filters and bottled water?

Do the filters actually work? We've been hearing they don't protect for lead.

The filters are only good for 100 gallons. What happens when they are used up?

What about restaurants?

What's going to be done about lead service lines?

Do you wish you'd made this switch sooner?

Schools testing

What do these results say?

Any theories about what's going on?

Do the schools have lead service lines? If not, why are they getting such high results?

How long do the schools have to stay on bottled water? Just until the switch to Detroit, or longer term?

Why did you only test 13 schools?

What happens to other schools?

What about the schools that can't afford to update their entire plumbing systems?

How confident are you in your testing? You've got results all over the map.

What do you mean by "health exposure testing"? What are you doing next?

The 90th percentile of your results is still below 15 ppb. Does that make you more or less confident in your testing and in your protocols?

Any idea how long kids have been exposed to lead? Was it before the move to the Flint River?

How does the state bring this new information into the broader picture of kids' lead exposure across the state?

From: Workman, Wayne (TREASURY)
Sent: Wednesday, October 07, 2015 4:25 PM
To: Hollins, Harvey (GOV)
Cc: Muchmore, Dennis (GOV); Stanton, Terry A. (Treasury); Saxton, Thomas (Treasury); Wurfel, Sara (GOV); Wurfel, Brad (DEQ); Baird, Richard (GOV)
Subject: FW: flint docs
Attachments: Flint.pdf

Harvey, Attached are various documents and press reports of the City Council`s vote in March 2013 to join KWA. We have not located the actual resolution and it is not on the City`s website. It is interesting that the only no vote explained he wanted to just use Flint River water. Wayne

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Dempkowski, Angela (Treasury)
Sent: Wednesday, October 07, 2015 4:20 PM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Subject: flint docs

Revised pdf

Angela Dempkowski | Senior Executive Management Assistant/Treasury
State of Michigan | 430 W. Allegan Street, 1st Floor | Lansing, MI 48922
(517) 373-4415 | (517) 373-0633 (fax)
dempkowskia@michigan.gov

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Thank you

EM SUBMISSION NO.: 2013EM041

PRESENTED: 3-28-13

ADOPTED: 3-29-13

BY THE EMERGENCY MANAGER:

RESOLUTION TO PURCHASE CAPACITY FROM KAREGNONDI WATER AUTHORITY

The Karegnondi Water Authority (KWA) is a governmental consortium of cities and counties in southeastern Michigan that was created to build a water pipeline that will provide water from Lake Huron to interested communities in Sanilac, Lapeer, and Genesee counties. The incorporating bodies that created the KWA are Sanilac County, Lapeer County, Genesee County, the City of Flint, and the City of Lapeer.

The City of Flint is currently in a year to year contract with the City of Detroit for the purchase of water. A study was conducted that projected that staying with Detroit will cost the region $2.1 billion over the next 25 years. In contrast, if the region builds its own pipeline, the projected costs are $1.9 billion over the same period. After the initial 25 year period, the projected costs would be less then 25% of the projected water costs from Detroit.

In order to build the pipeline, the KWA needs commitment from its members regarding the capacity that each member will purchase in the pipeline. The KWA is allowed to withdraw 85 million gallons of water per day. Capacity is available to members in increments of 1 million gallons per day known as units. For each unit of capacity that a member purchases, the buyer shall pay to the KWA a one time fee of $32,300.00. Additionally, the buyer shall pay to the KWA not less then $32,300.00 per unit per year until such time as water is made available to the buyer. After water is made available, the buyer shall pay to the KWA an estimated amount not to exceed $355.300.00 per unit per year until such time that the bonds are paid in full. If it is determined that the costs per unit will exceed $355,300.00 the buyer has a right to cancel the contract.

The purchase of capacity along with the payment of other costs necessary to operate the pipeline gives the member a right to water for sale to its customers. The buyer has a right to resell capacity and water rights. Each party entering into a capacity contract shall also be entitled to appoint additional board members equal to the party's percentage share of the total capacity under contract.

It is in the long term best interests of the City of Flint to enter into a contract with the KWA to purchase up to eighteen (18) units of capacity.

IT IS RESOLVED that City officials are authorized to enter into a contract with KWA to purchase up to eighteen (18) units of capacity.

IT IS FURTHER RESOLVED that the City Administrator is authorized to provide KWA information needed to administer the contract and, with approval of the Chief Legal Officer, to make minor (non-material) modifications to the contract.

APPROVED AS TO FORM:

Peter M. Bade, City Attorney

APPROVED AS TO FINANCE:

For **Gerald Ambrose, Finance Director**

EM DISPOSITION:

ENACT 1 **FAIL** _____ **DATED** 3-29-13

Edward L. Kurtz, Emergency Manager

S:\P. Bade\EM2013\Resolutions\KWA.03.28.13.doc

Flint

Flint City Council approves resolution to buy water from Karegnondi, state approval still needed

[http://connect.mlive.com/staff/dadams1/index.html] By Dominic Adams | dadams5@mlive.com [http://connect.mlive.com/staff/dadams1/posts.html]
Follow on Twitter [http://www.twitter.com/dominicadams]
on March 25, 2013 at 10:45 PM, updated March 26, 2013 at 1:28 AM

FLINT, MI – Flint is one step closer to getting its water from Lake Huron as part of the Karegnondi Water Authority.

The vote, **approved 7-1 at the Flint City Council meeting Monday, March 25 [http://www.mlive.com/news/flint/index.ssf/2013/03/flint_city_council_again_delay.html]** , may have set in motion the end to Flint paying to get its water from Detroit.

Under the proposal, Flint would get 16 million gallons per day of raw water from Lake Huron, pipe it to Flint for treatment and then sell it to customers throughout the city. Another 2 million gallons per day would come from the Flint River and will be treated in Flint.

Mayor Dayne Walling said the Department of Environmental Quality must approve Flint's getting 2 million gallons per day from the Flint River.

Tuesday's meeting followed weeks of discussions and special meetings surrounding the resolution.

"We got there," Councilman Joshua Freeman said. "That's the important thing."

There were more than 50 people at Monday's meeting.

"Going with Karegnondi is the best decision. We have no opinion on the economics of the decision," said Rebecca Fedewa, Flint River Watershed Coalition executive director. "If we start drawing water out of the Flint River, we are at risk of having to start releasing water from our reservoirs."

Genesee County Drain Commissioner Jeff Wright said the decision must still be approved by a county water and waste advisory board. The KWA board will then be reconvened for final approval.

Wright said construction could start in May.

State treasury officials still must approve the city council's move because Flint has an emergency financial manager. All expenditures over $50,000 must be approved.

Genesee County Drain Commissioner Jeff Wright has said that Flint would pay roughly $6.4 million annually for water service if it joined the pipeline – a nearly $4 million savings on what it pays Detroit for water.

Walling previously said the **city would save $19 million over eight years [http://www.mlive.com/news/flint/index.ssf/2013/03/flint_city_council_delays_deci.html]** by getting water from the KWA.

"It's a historic night in the City of Flint," Walling said. "The savings will be less with the capacity level approved by city council because there will be increased treatment cost for the river water."

He said the DEQ told the city it needed to get 18 million gallons per day or there would have to be additional work done at Flint's water plant.

Flint's water plant and the Flint River is currently the backup for Flint and Genesee County, however, the plant only operates four times per year.

Councilman Bryant Nolden was the lone dissenting vote.

"It was a protest vote," Nolden said. "I knew they had enough votes. I just feel like the Flint River is our best option."

Karengnondi is the regional water authority that includes Genesee, Lapeer and Sanilac counties and the cities of Flint and Lapeer.

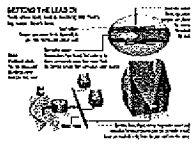
Flint is the second municipality, behind Genesee County, to officially decide to purchase raw water through the KWA. Lapeer city officials said they intend to purchase water, but an agreement has been finalized.

Dominic Adams is a reporter for MLive-Flint Journal. Contact him at ***dadams5@mlive.com*** *or 810-241-8803. Follow him on* ***Twitter [http://www.twitter.com/dominicadams]*** *,* ***Facebook [http://www.facebook.com/dominic.adams.1865]*** *or* ***Google+ [https://plus.google.com/103690672506808729911?rel=author]*** *.*

Related Stories

Price of Detroit water for Flint is $1.5 million a month, mayor says

[http://www.mlive.com/news/flint/index.ssf/2015/10/mayor_city_ad



Here's how that toxic lead gets into Flint water

[http://www.mlive.com/news/flint/index.ssf/2015/10/see_step_by_s

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GENESEE COUNTY DRAIN COMMISSIONER'S OFFICE
JEFFREY WRIGHT
COMMISSIONER
G-4608 BEECHER ROAD, FLINT, MI 48532
PHONE (810) 732-1590 FAX (810) 732-1474

FOR IMMEDIATE RELEASE

March 26, 2013

CONTACT: Jeff Wright

810-287-1925

What: Jeff Wright Statement on Flint City Council Approving Resolution to Join KWA.

When: March 26, 2013

Additional Info: Jeff Wright, CEO of the KWA, today praised the Flint City Council for voting to approve a resolution to officially have the City of Flint join the KWA and its' water line.

"I have said from the beginning that this decision must be made by Flint's City Council and Mayor," said Wright. "I appreciate the council voting the way they did, but even more than that, I am glad the residents of Flint were able to have their voices heard via their elected officials." The next step in the process will come with the KWA Board executing the contract for the City.

"The most important aspect from the vote is the fact that we as an Authority can move forward knowing Flint's intentions," said Wright.

Despite Emergency Manager Ed Kurtz publicly supporting the project, Wright had made a vote by council a condition of Flint joining the KWA so the residents would have their say.

"There is a basic tenet that government is best when it has local control. We saw that with the council vote. Nobody, whether they live in Flint, Grand Blanc, Davison, Fenton, or anywhere in Genesee County, should have these types of decisions made by people who live outside of their community," said Wright.

At the next Water and Waste Advisory Board meeting a vote will be taken to award a contract for construction of the intake portion of the water line. All bids were submitted to the board at their last meeting for review.

89 (Rev. 02-11)

STATE OF MICHIGAN
DEPARTMENT OF TREASURY
LANSING

RICK SNYDER
GOVERNOR

ANDY DILLON
STATE TREASURER

Mr. Edward Kurtz
Emergency Manager
City of Flint
1101 South Saginaw Street
Flint, MI 48502

April 11, 2013

Dear Mr. Kurtz:

Thank you for your March 29, 2013 letter, which is attached for reference. As the Emergency Manager for the City of Flint ("Flint" or "City"), you have asked for my concurrence, pursuant to Public Act 436 of 2012, the Local Financial Stability and Choice Act, to authorize a contract in excess of $50,000.00 not subject to competitive bidding. This request was related to the City entering into an agreement with the Karegnondi Water Authority (KWA) for provision of raw water for the City.

In considering your request, I took note of the following facts in support of Flint joining KWA. First, there is widespread support in the City for this move, including the support of the Mayor, the City Council, and the Emergency Manager. Second, this move will provide a unique opportunity for the City and County to partner on an important project, which will hopefully lead to future regional collaboration. Third, the Department of Environmental Quality is supportive of the City participating in the KWA project. Finally, your representations that this deal will lead to substantial savings for the City over the coming decades, savings that are desperately needed to help with the turnaround of the City of Flint.

It is my understanding that the Detroit Water and Sewer Department is making a final best offer to Genesee County and the City of Flint next Monday, April 15, 2013. As such, this approval will be effective at 5 pm on April 16, 2013 after receiving written notice from the City that either no such offer was presented to the county and the City or that an offer was received and was rejected in good faith based upon specified objections.

For the reasons described above and subject to the conditions set forth herein, pursuant to Section 12 (3) of PA 436 of 2012, I am authorizing you to proceed with adopting the resolution and entering into a contract with KWA.

Sincerely,

Andy Dillon
State Treasurer

Flint

Flint council supports buying water from Lake Huron through KWA

[http://connect.mlive.com/staff/dadams1/index.html] By Dominic Adams | dadams5@mlive.com [http://connect.mlive.com/staff/dadams1/posts.html]
Follow on Twitter [http://www.twitter.com/dominicadams]
on March 25, 2013 at 7:17 PM, updated March 26, 2013 at 7:43 AM

FLINT, MI -- Flint residents may soon get their water from Lake Huron.

The Flint City Council voted 7-1 to get 16 million gallons per day from the Karegnondi Water Authority.

"This is about compromise," said Councilman Sheldon Neeley.

Neeley got support from Councilman Joshua Freeman, after the two were previously at odds about the amount the city should withdraw from Lake Huron.

Councilman Bryant Nolden was the lone "no" vote.

"It was a protest vote," Nolden said. "I just feel like the Flint River is our best option."

Genesee County Drain Commissioner said construction of the pipeline could start in May.

The city currently pays to get its water from Detroit.

State treasury officials still must approve the city council's move because Flint has an emergency financial manager. All expenditures over $50,000 must be approved.

*Dominic Adams is a reporter for MLive-Flint Journal. Contact him at **dadams5@mlive.com** or 810-241-8803. Follow him on **Twitter [http://www.twitter.com/dominicadams]** , **Facebook [http://www.facebook.com/dominic.adams.1865]** or **Google+ [https://plus.google.com/103690672506808729911?rel=author]** .*

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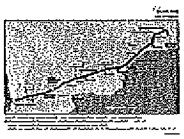

Enbridge can begin piping tar sands oil along Lake Ontario north shore

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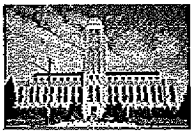

Former Detroit American Motors Corp. headquarters being auctioned; starting bid $500

[http://www.mlive.com/news/detroit/index.ssf/2015/10/former_detr

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From: Wurfel, Brad (DEQ)
Sent: Wednesday, October 07, 2015 5:03 PM
To: Wurfel, Sara (GOV); Lasher, Geralyn (DHHS); Tommasulo, Karen (DEQ)
Subject: 151008. Media QA
Attachments: 151008. Media QA.docx

Questions with some draft answers. Not by any means final, but here's my first crack at this.

Flint Drinking Water

Media Q&A

Oct. 8, 2015

Switch to Great Lakes Water Authority

What finally pushed the state to this decision?
This was the City's request, and the Governor supports it, based on several key factors: In the near term, DWSD water will be easier to manage. It comes from a more stable source than the river, it is fully optimized for corrosion control, and it is clear that residents of Flint have more confidence in this water source.

Will this solve Flint's water crisis?
In combination with the other short term, intermediate term and long-term steps outlined last week, this move represents a big step forward. Flint still has serious system maintenance challenges it must address.

If you're saying residents will still have lead because of their plumbing, does that mean every other city in this state has a lead problem?
Many areas of the state have lead in their infrastructure mix.

Where's the state getting the money to fund this?
We have submitted a formal request to lawmakers via the appropriations process.

Where's the city getting the money to fund this?
The city is contributing all it can, and is getting assistance for its match from the Mott Foundation.

How long will the switch take?
The switch will be completed by the City and Great lakes Water Authority, but our understanding is that it can be accomplished in the very near term once the arrangements are complete.

How long will it take before Detroit's corrosion controls provide protection for Flint?
It will take some time for the corrosion control additives to build on pipe walls throughout the system. Estimates vary. The state can assure we will commence monitoring of the system early 2016 and report results as we get them to keep the community updated.

Why do residents still need to use filters and bottled water?
The filters and bottled water are responsible precautions for any resident concerned about lead exposure.

Do the filters actually work? We've been hearing they don't protect for lead.
Yes, the filters work. They are all certified for lead removal by the National Sanitation Foundation.

The filters are only good for 100 gallons. What happens when they are used up?
They will need to be replaced. And residents can get a new filter.

What about restaurants?

What's going to be done about lead service lines?
Long term, this is the only permanent solution to lead exposure. The state has committed to helping the city accomplish this goal long term.

Do you wish you'd made this switch sooner?
We support the City's decision. We can't look backward. We feel the state has responded quickly and effectively as information has surfaced, been investigated and verified. While the City of Flint is, right now, in compliance with the federal Lead and Copper Rule, we recognize there is a disparity between surveillance testing and other testing happening in the community that we need to better understand and we are working on developing our knowledge.

<u>Schools testing</u>
What do these results say?
The results say we need to further investigate Flint schools and help the schools find clearer causes for some the results we got.

Any theories about what's going on?
It is possible there are specific points in the plumbing that have lead components which need to be replaced, but we can't say anything definitively until we perform an investigation at each school.

Do the schools have lead service lines? If not, why are they getting such high results?
The schools we tested initially do not have lead service lines. There are a few possible reasons why lead is being detected at specific points in the buildings and not others. When we know things definitively, we will make the information public.

How long do the schools have to stay on bottled water? Just until the switch to Detroit, or longer term?
We are encouraging the schools to continue their current protective measures as a precaution until we can get into the buildings and get more answers.

Why did you only test 13 schools?
That was what the Flint Public Schools requested.

What happens to other schools?
We will test all the schools in Flint if they request it.

What about the schools that can't afford to update their entire plumbing systems?
This is why we are having plumbing assessments completed. There is no way to know yet what each building will require.

How confident are you in your testing? You've got results all over the map.
We are confident that our testing meets the requirements for the federal Lead and Copper Rule, which is surveillance monitoring. The bigger question is whether surveillance monitoring meets the public health protection standards that Lead Exposure Testing methods do. The EPA is working on that question now, and we are engaged in that dialogue.

What do you mean by "health exposure testing"? What are you doing next?

The 90th percentile of your results is still below 15 ppb. Does that make you more or less confident in your testing and in your protocols?
It makes us confident that the testing protocol delivers consistent results. But again, it does raise questions about whether this testing method shows what people think it does or what they really want to know, which is actual lead exposure from lead plumbing in a home.

Any idea how long kids have been exposed to lead? Was it before the move to the Flint River?
That is possible. We don't know.

How does the state bring this new information into the broader picture of kids' lead exposure across the state?

From: Workman, Wayne (TREASURY)
Sent: Wednesday, October 07, 2015 5:58 PM
To: Wurfel, Sara (GOV)
Subject: Fwd: Flint - River Decisions

We will keep checking

Sent from my iPhone

Begin forwarded message:

> **From:** "Widigan, Robert (TREASURY)" <WidiganR@michigan.gov>
> **Date:** October 7, 2015 at 5:27:31 PM EDT
> **To:** "Workman, Wayne (TREASURY)" <WorkmanW@michigan.gov>
> **Cc:** "Byrne, Randall (Treasury)" <ByrneR1@michigan.gov>, "Cline, Richard (Treasury)" <cliner1@michigan.gov>
> **Subject: Re: Flint - River Decisions**
>
> Wayne,
>
> From our search there does not appear to be any council action or EM order/resolution regarding the city using the river as a water source.
>
> It seems like it was just decided and they went with it.
>
> If further information is desired please let me know.
>
> -Rob
>
> Sent from my iPhone
>
> On Oct 7, 2015, at 5:08 PM, Workman, Wayne (TREASURY) <WorkmanW@michigan.gov> wrote:
>
> > This would have been after the April 2013 letter from DWSD when Detroit cut them off
> >
> > Sent from my iPhone
> >
> > On Oct 7, 2015, at 4:58 PM, Widigan, Robert (TREASURY) <WidiganR@michigan.gov> wrote:
> >
> > > Randy,
> > >
> > > Wayne asked if there was anything on MLive, the articles don't mention a council vote.
> > >
> > > Robert Widigan
> > > Local Government Financial Services Division
> > > Michigan Department of Treasury
> > > Office (517) 373-3227 Cell PPI

<Flint residents should be drinking Flint River water by mid-April, officials say.pdf>

<Flint gets final permit approvals from state to use Flint River for drinking water.pdf>

From: Stoken, Laura (GOV)
Sent: Friday, October 09, 2015 10:25 AM
To: Tommasulo, Karen (DEQ); Wurfel, Sara (GOV); Murray, David (GOV); Wurfel, Brad (DEQ)
Cc: Kennedy, Jordan (GOV); Thelen, Mary Beth (DEQ)
Subject: RE: FLINT WATER : New form letter- questions

Thanks Karen…..

From: Tommasulo, Karen (DEQ)
Sent: Friday, October 09, 2015 10:25 AM
To: Stoken, Laura (GOV) <Stokenl@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>
Cc: Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>; Thelen, Mary Beth (DEQ) <THELENM2@michigan.gov>
Subject: RE: FLINT WATER : New form letter- questions

Hi Laura,
Only change I have is in the 5th paragraph. It should be changed to read "The move to Detroit water carries many health benefits." I think that was a typo in the original press release.

Otherwise, looks good. Thanks!
Karen

From: Stoken, Laura (GOV)
Sent: Friday, October 09, 2015 9:59 AM
To: Wurfel, Sara (GOV); Murray, David (GOV); Tommasulo, Karen (DEQ); Wurfel, Brad (DEQ)
Cc: Kennedy, Jordan (GOV); Thelen, Mary Beth (DEQ)
Subject: RE: FLINT WATER : New form letter- questions

Hi Team,

Please review.

Thank you,

Laura

From: Stoken, Laura (GOV)
Sent: Thursday, October 08, 2015 10:51 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Tommasulo, Karen (DEQ) <TommasuloK@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>
Cc: Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>; Thelen, Mary Beth (DEQ) <THELENM2@michigan.gov>
Subject: FLINT WATER : New form letter- questions

Hi Team,

Please see below the proposed Flint Water form letter….

For our knowledge/ not the letter:
If someone can give me information on the initial switch that would be helpful- when, why.

Also, the action timeline from when the state found out about the lead, up to today.

Let me know if we are good to go on the letter.

Thank you,

Laura

Thank you for your recent correspondence sent to Governor Rick Snyder regarding the water in Flint. As a member of Governor Snyder's staff, I am responding on his behalf.

Flint families and children will be better protected by reconnecting with the Great Lakes Water Authority as the source of the city's drinking water until the Karegnondi Water Authority pipeline is completed. Governor Snyder has asked the state Legislature to provide half, or $6 million, of the $12 million needed to reconnect with the authority through next summer, when the KWA is expected to be completed. The Flint city government will provide $2 million and the Charles Stewart Mott Foundation has committed $4 million.

Governor Snyder said "Flint residents need to have access to safe, clean, water now and long into the future." The technical experts helping the city on its water advisory all agree this move back to the Great Lakes Water Authority provides the best public health protection for children and families. The Governor appreciates Detroit's willingness to reconnect with Flint, the Mott Foundation's generous commitment, and the dedication of all parties to come together to protect Flint families and children.

Flint city leaders requested the state's help to fund the reconnection and to assist with health and infrastructure issues. Flint's move to the Great Lakes Water Authority is expected to cost about $1.3 million per month until the Karegnondi Water Authority is completed next summer.

The move to Detroit water, which is expected to carry, carries many public health benefits. As large bodies of water, the Great Lakes are naturally prone to fewer problems from large rain events and other runoff issues that can sometimes be present in shallower rivers. Additionally, the Great Lakes Water Authority water already has additional corrosion control, using phosphates to help coat the insides of pipes and limit lead from leaching into the water. However, reconnecting with the authority will not completely resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control. Additionally, some households in the city could experience lead in their drinking water until all lead pipes and plumbing are replaced.

To best protect public health, Governor Snyder, state, and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure. The Michigan Departments of Environmental Quality (DEQ) and Health and Human Services (MDHHS) also committed an additional $3.5 million for water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

Free filters are available for current MDHHS clients at the 125 E. Union St. or 4809 Clio Road MDHHS office locations. For residents who are not currently enrolled in MDHHS assistance programs, free filters are available at the Genesee County Community Action Resource Department offices at 2727 Lippincott and 601 North Saginaw in Flint. Staff will be at all four locations from 9 a.m. to 4 p.m., Monday through Friday, to distribute filters and assist residents who have questions about proper installation. At the Lippincott location only, extended hours will be offered this weekend, including until 7 p.m. on Thursday and Friday and from 10 a.m. to 2 p.m. on Saturday.

Other good practices for residents concerned about lead include turning on the cold water tap and running the water until it's as cold as it will go. Additionally, only use cold water for cooking, drinking and especially mixing baby formula.

School test results released; more investigation planned

The state also released the first results from its lead screening program in schools and homes. Of 37 total samples taken at 13 buildings, four samples spread over three buildings exceeded the federal action level of 15 parts per billion.

However, this sampling provides only an initial screen, and the state is committing to further testing water and inspecting plumbing at these schools. Until testing is complete, schools are advised to continue using bottled water and filtration as a precaution to protect children.

In addition, free testing is still available for any other Flint school, including daycares and Head Starts. Free testing is also available for any Flint resident.

Please visit Michigan.gov/Flintwater for additional resources.

Thank you, again, for taking the time to share your concerns with our office. Should you have any further comments, questions or concerns regarding this or any other state-related matter, I've included my contact information below.

Sincerely,

Laura Stoken
Manager, Constituent Relations
Executive Office of the Governor, Rick Snyder
517.335.7858

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Monday, October 12, 2015 7:15 PM
Subject: PRESS RELEASE: City Administrator Statement Regarding Rep. Phelps FOIA Request
Attachments: CA.RE.Phelps.10.12.15.pdf

For Immediate Release

City Administrator Statement Regarding Rep. Phelps FOIA Request

Flint, Michigan – October 12, 2015 – The following statement is in response to remarks from Representative Phil Phelps regarding his recent Freedom of Information Act request of the City of Flint.

"The City of Flint is operating as permitted by the MDEQ, however the specific documents requested by Rep. Phelps do not exist. As the City's full-time back up water source during the previous contract with DWSD, the Flint River was already an approved drinking water source. This issue could be as simple as a miscommunication on what was sought by Rep. Phelps and the City is willing to meet with his office to clarify and provide more information."

-Natasha L. Henderson
City Administrator, City of Flint

–END
-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI (Cell)
jlorenz@cityofflint.com

Dayne Walling
Mayor

Natasha L. Henderson
City Administrator

Jason Lorenz
Public Information Officer
Office: (810) 237-2039
Cell: PPI
jlorenz@cityofflint.com

For Immediate Release

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-Natasha L. Henderson

City Administrator, City of Flint

–END–

From: Maloney, Damon <damon.maloney@abc12.com>
Sent: Thursday, October 15, 2015 12:45 PM
To: Wurfel, Sara (GOV)
Cc: Murray, David (GOV)
Subject: Flint Water Fix Bill passage

Hello,

ABC12 is in Lansing today and wanted to be in the loop on getting information when the Governor signs the Flint Water Fix Bill.

I also wanted to ask- the money approved is intended to tie the city over until KWA is up and running which we heard is expected to be June of 2016- what if KWA is not ready? Would Flint continue to stay on Detroit water system- if so, who/how would that bill be paid? Or would city be forced back onto River Water?

Thanks,
Damon

Damon Maloney
abc12 News
Sent from my iPhone

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Friday, October 16, 2015 4:09 PM
Subject: PRESS RELEASE: City of Flint Reconnects to Detroit Water
Attachments: CoF.DWSD.Agreement.2015.pdf

For Immediate Release

City of Flint Reconnects to Detroit Water

Flint, Michigan – October 16, 2015 – Flint has reconnected to Detroit water. reached an agreement with the Detroit Water and Sewerage Department (DWSD) for the temporary provision of treated Lake Huron water to Flint. Work to establish the reconnection will begin immediately in a coordinated effort between the City of Flint, Genesee County and the DWSD.

A tremendous effort by all three partners, along with the efforts of the Governor and the State Legislature, ensured that this action occurred as quickly as possible. "The money from the state to begin fixing Flint water by reconnecting to Detroit is just a start – a down payment,´ said Mayor Dayne Walling. "I am not going to stop until every drop of drinking water in Flint is 100% safe."

Detroit water will be introduced into the Flint system throughout the evening. It is expected that the thorough replacement from Flint River water to Detroit water will happen after approximately three weeks. Residents in Flint may see discoloration as well as noticing some taste and odor issues during the transition.

Water provided by DWSD will contain corrosion control agents to hinder the leaching of lead from old pipes into the water; however, the City will also be adding additional corrosion control agents to further minimize the risk presented by lead pipes.

The contract between the City and DWSD calls for the provision of 12.5 million gallons per day (mgd) of treated water from Lake Huron at a cost of $1.1 million per month. DWSD Director Sue McCormick noted that the talks between Flint, DWSD and the GLWA Board were very cordial: "everyone acted in a spirt of cooperation in order to come to this agreement." Flint will purchase water from Detroit until the Karegnondi Water Authority (KWA) pipeline can be completed in 2016. At that time, the KWA will become the primary water source for the City and the Flint River will remain as a backup system.

Residents with questions or concerns about the hydrant flushing in their area can call the Water Service Center at 810-766-7202. Continuing information on water will be provided via the City of Flint's website, cityofflint.com.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI (Cell)
jlorenz@cityofflint.com

Dayne Walling
Mayor

Natasha L. Henderson
City Administrator

Jason Lorenz
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Office: (810) 237-2039
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For Immediate Release

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–CONTINUE–

Dayne Walling
Mayor

Natasha L. Henderson
City Administrator

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–END–

From: Michelle Zdrodowski <michelle.zdrodowski@detroitk12.org>
Sent: Monday, October 19, 2015 5:13 PM
To: Muchmore, Dennis (GOV); Baird, Richard (GOV); Paul Conners; Saxton, Thomas (Treasury); Khouri, Nick (TREASURY); Stanton, Terry A. (Treasury); Workman, Wayne (TREASURY); Wurfel, Sara (GOV); Murray, David (GOV); haddenf@michigan.gov
Cc: Darnell Earley; Kelly Rossman-McKinney
Subject: Earley Flint Water OpEd-FOR REVIEW AND INPUT
Attachments: Earley Flint Water Op-Ed_DRAFT5.docx

All,

Darnell Earley asked that I send you the draft of an OpEd regarding the Flint Water issue that he would like to send to the media this week.

He is seeking your input before sending, and is looking for any feedback you might have by tomorrow afternoon. He has intentionally placed it on his EM letterhead as he is still acting in the capacity of an EM.

Thank you.

Michelle Z.

Michelle A. Zdrodowski
Executive Director of Communications
Detroit Public Schools
3011 W. Grand Boulevard, 14th Floor
Detroit, MI 48202
313.873.3238, office
PPI mobile

DETROIT PUBLIC SCHOOLS

Darnell Earley, ICMA-CM, MPA
Emergency Manager

Fisher Building – 14th Floor
3011 W. Grand Boulevard
Detroit, MI 48202-2710

Phone: (313) 870-3772
Fax: (313) 870-3726
www.detroitk12.org

Op/Ed Re: Changes to Flint Water System Made By Local Leaders, Not EM ***DRAFT***
Author: Darnell Earley, ICMA-CM, MPA

It is critically important that the record be set straight about the decision-making and approval processes that led to Flint joining the Karegnondi Water Authority (KWA) with the use of Flint River water as the interim water supply. Contrary to reports in the media and rhetoric being espoused by individuals, the decision was made at the local level, by local civic leaders.

The fact of the matter is that the decision to separate from Detroit Water and Sewerage Department and go with the KWA, which included the decision to pump Flint River water in the interim, were both a part of a long-term plan that was approved by Flint's Mayor, and confirmed by a City Council vote of 7-1 on March 25, 2013. This plan was presented to me when I was appointed as Flint Emergency Manager - a full seven months after City Council's affirmative vote.

Genesse County Drain Commissioner Jeff Wright also made the affirmative vote by the City Council a necessary condition of joining the KAW, and applauded the decision in a March 26, 2013 news release, saying, "…I have said from the beginning that this decision must be made by Flint's City Council and Mayor…I am glad that the residents of Flint were able to have their voices heard via their elected officials."

The Mayor's approval of the plan, and the subsequent near unanimous vote by City Council were in no way coerced, forced or demanded by the State, nor any Emergency Manager. Council's affirmative vote was supported and officially signed into emergency order by then Emergency Manager Edward Kurtz on March 29, 2013. A subsequent order Kurtz signed on June 26, 2013, speaks specifically to the, "… upgrading of the Flint Water Plant to ready it to treat water from the Flint River to serve as the primary drinking water source for approximately two years and then converting to KWA delivered lake water."

When I began my term as Emergency Manager in October 2013, it fell to me to oversee the implementation of the previously accepted and approved plans, as the contract with DWSD expired in April 2014. It did not fall to me to question, second guess or to invalidate the actions that were taken prior to my appointment.

At the time the decision was made there was no way to predict such an unfortunate outcome. I would also offer that had local leaders known then what they know now, parts of their decision may have been entirely different. What the City of Flint and the State of Michigan are now dealing with is the management of an unintended consequence resulting in a negative outcome from an otherwise sound public policy decision. There is no "blame" to affix for that.

As the solutions are put into place to address the serious concerns at hand, I believe that everyone's attention should turn toward another serious concern -- what is being done in the long-term to replace the aged and

crumbling water distribution systems that exits throughout Flint and Genesee County, which was a major contributing factor to this serious issue in the first place.

I am a strong believer that the truth supported by fact, speaks for itself. This was a local decision that was made by local civic leaders. Anyone who says otherwise is being disingenuous for whatever reason. In the words of Mahatma Ghandi, *"Truth never damages a cause that is just."*

From: Murray, David (GOV)
Sent: Monday, October 19, 2015 5:20 PM
To: Wurfel, Brad (DEQ)
Cc: Wurfel, Sara (GOV)
Subject: Re: Third-Party review question

Done. He's a nice guy.

The truth is there is s lot to be determined..

Sent from my iPhone

On Oct 19, 2015, at 5:12 PM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:

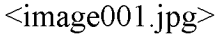
> Please do!
>
> Sent from my iPhone
>
> On Oct 19, 2015, at 5:11 PM, Murray, David (GOV) <MurrayD1@michigan.gov> wrote:
>
> > I know this one and can call John.
> >
> > Sent from my iPhone
> >
> > On Oct 19, 2015, at 2:32 PM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:
> >
> > > Where we at with this announcement?
> > >
> > > Sent from my iPhone
> > >
> > > Begin forwarded message:
> > >
> > > **From:** "Wisely, John" <jwisely@freepress.com>
> > > **Date:** October 19, 2015 at 12:52:49 PM EDT
> > > **To:** "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
> > > **Subject: Third-Party review question**
> > >
> > > Brad:
> > >
> > > The statement from Dan Wyant includes this:
> > > The Governor has called for an independent, third-party after-action review.
> > >
> > > Questions:
> > > Who/what is the third party?
> > > Is it the legislature?
> > > A committee of experts to be appointed?

Senate Minority leader (from Flint) wants legislative review. Is that something the state is prepared to assist with?
Please let me know asap.

John Wisely
Reporter

Phone: 313-222-6825
jwisely@freepress.com
Follow me on Twitter: @jwisely

Freep.com



From: Wurfel, Brad (DEQ)
Sent: Tuesday, October 20, 2015 1:14 PM
To: Murray, David (GOV); Wurfel, Sara (GOV)
Subject: Proposed response: FW: RELEASE: Progress Michigan: MDEQ's Wyant Needs to Go

Dan's response has been essentially this:

"The Governor will decide. He has called for an independent, third-party After Action Review. That group will review local decision, the water plant operation, DEQ's actions and the EPA's role, and offer its findings and recommendations to the Governor. He will do the right thing."

From: Jacob Kanclerz [mailto:jacob@mirsnews.com]
Sent: Tuesday, October 20, 2015 12:40 PM
To: Wurfel, Brad (DEQ)
Subject: Re: RELEASE: Progress Michigan: MDEQ's Wyant Needs to Go

Never mind, you can stand down on this. We're going to write a story about Ananich wanting Senate Oversight to look into Wyant/DEQ. I don't have the audio yet to give you specific details, but if you want to comment on that prospect that would also work for me.

On Tue, Oct 20, 2015 at 11:57 AM, Jacob Kanclerz <jacob@mirsnews.com> wrote:
Brad,

Good morning. Would you mind calling me about this? Both the Dems and Progress MI are asking for Director Wyant to step down. I would like to know if that's an appropriate response to this situation. Let me know when you get a chance. Thanks.

---------- Forwarded message ----------
From: **Progress Michigan** <progress@progressmichigan.org>
Date: Tue, Oct 20, 2015 at 10:52 AM
Subject: RELEASE: Progress Michigan: MDEQ's Wyant Needs to Go
To: Jacob Kanclerz <jacob@mirsnews.com>

FOR IMMEDIATE RELEASE
News from Progress Michigan

October 20, 2015

Contact: Sam Inglot, 616-916-0574, sam@progressmichigan.org

Progress Michigan: MDEQ's Wyant Needs to Go

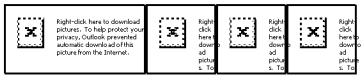
The Flint water crisis shows a lack of leadership at the MDEQ

LANSING — In the wake of the Flint water crisis, where children across the city were poisoned with high levels of lead in the drinking water, Progress Michigan is calling for the ouster of the head of the Michigan Department of Environmental Quality, Dan Wyant.

Recent reports show that Wyant and the MDEQ were warned by the Environmental Protection Agency as early as February that lead was leaching into the water pipes in Flint due to the corrosive nature of the Flint River water. Gov. Rick Snyder's emergency manager made the switch from Detroit water to Flint River water.

"You can't simply reshuffle some staff at the department to make up for poisoning thousands of Flint children. When families and kids are told their drinking water is safe and it's actually filled with toxins, someone needs to be held accountable. It starts at the top with Wyant," **said Lonnie Scott, executive director of Progress Michigan.** "He needs to resign immediately or Gov. Snyder needs to quickly show him the door. This crisis was allowed to fester and grow under his watch and Wyant needs to go. Families in Flint deserve to know that Gov. Snyder is taking this problem seriously and is willing to take serious action."

###



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--
Jacob Kanclerz
Reporter, MIRS News
Office: 517-482-2125
Cell: PPI
Twitter: @jacobkanclerz

--

Jacob Kanclerz
Reporter, MIRS News
Office: 517-482-2125
Cell: [redacted]
Twitter: @jacobkanclerz

From: Tommasulo, Karen (DEQ)
Sent: Wednesday, October 21, 2015 3:02 PM
To: Wurfel, Brad (DEQ); Wurfel, Sara (GOV); Murray, David (GOV); Brown, Jessica (GOV); Anderson, Madhu (DEQ)
Subject: Advisory Task Force media Q&A
Attachments: After-Action Review Q&A.docx

This is the media Q&A we put together for the task force members. Let me know what changes you'd like to see.

Karen Tommasulo
Public Information Officer
Michigan Department of Environmental Quality
517-284-6716 | 517-599-5733
tommasulok@michigan.gov

After-Action Review Q&A

Is the Flint Water Advisory Task Force independent? They were appointed by the Governor.

None of the task force members are city, state or federal employees, and none have been previously involved in the drinking water situation in Flint. They bring diverse expertise in pediatrics and internal medicine, environmental protection, water and wastewater asset management, and environmental policy. We are pleased to have their participation.

What is the task force's scope and mission?

The Flint Water Advisory Task Force will look at the procedures and protocols used by the City of Flint, the Michigan DEQ and the U.S. EPA during and after its switch to using the Flint River as its source of drinking water. The group will also review whether the present procedures, protocols, statutes, policies and rules that govern drinking water systems are enough to protect the public health of Michigan residents.

Will the Flint Water Advisory Task Force look at corrosion control and the Lead and Copper Rule?

Yes. If necessary, the Flint Water Advisory Task Force could include proposed amendments to the Lead and Copper Rule or other protocols regulating corrosion control in its final report to the Governor.

What types of information will the task force look at to make its determinations?

The Flint Water Advisory Task Force will have any and all information at its disposal, including reports, emails, permits and any other documents needed.

Will the task force be empowered to fire anyone, or is that a recommendation they can make?

The task force's after-action review is focused on proactive recommendations to prevent future problems with lead in drinking water and to better protect public health statewide. They will offer a comprehensive set of recommendations they deem appropriate to the situation.

Is the panel made up of drinking water or lead experts?

The panel includes four members with diverse expertise in water and medicine. Their areas of specialty include pediatrics and internal medicine, environmental protection, water and wastewater asset management, and environmental policy, and we are pleased to bring their experience to the issue.

How long is the after-action review going to take?

The Flint Water Advisory Task Force will summarize its work in a report to be presented to the Governor within 90 days.

So will the results and the report to the Governor be made public?
The full report will be made public.

How does this help the people of Flint?
The after-action review is designed specifically to ensure the state learns from the experience in Flint and can better protect public health going forward. In the meantime, the city has reconnected to the Great Lakes Water Authority, and residents are encouraged to continue to use water filters and other protective measures to ensure safe drinking water while the long-term fixes of connecting to the Karegnondi Water Authority and replacing outdated local lead infrastructure is completed.

From: Anderson, Madhu (DEQ)
Sent: Wednesday, October 21, 2015 3:49 PM
To: Tommasulo, Karen (DEQ); Wurfel, Brad (DEQ); Wurfel, Sara (GOV); Murray, David (GOV); Brown, Jessica (GOV)
Subject: RE: Advisory Task Force media Q&A

Thanks Karen – as you all are looking at this, let's decide what the name of the task force is so we are consistent in documents, etc. – we will need to clear that name with the chairs of the task force. David can you follow up on this with Rich Baird?

Options:
Flint Water Advisory Task Force
Flint Water Task Force
Others?

Madhu

From: Tommasulo, Karen (DEQ)
Sent: Wednesday, October 21, 2015 3:02 PM
To: Wurfel, Brad (DEQ); Wurfel, Sara (GOV); Murray, David (GOV); Brown, Jessica (GOV); Anderson, Madhu (DEQ)
Subject: Advisory Task Force media Q&A

This is the media Q&A we put together for the task force members. Let me know what changes you'd like to see.

Karen Tommasulo
Public Information Officer
Michigan Department of Environmental Quality
517-284-6716 | 517-599-5733
tommasulok@michigan.gov

From: Saxton, Thomas (Treasury)
Sent: Thursday, October 22, 2015 3:46 PM
To: Muchmore, Dennis (GOV); Khouri, Nick (TREASURY)
Cc: Sygo, Jim (DEQ); Workman, Wayne (TREASURY); Stanton, Terry A. (Treasury); Wurfel, Sara (GOV)
Subject: FW: Wire Transfer Information
Attachments: JP Morgan Wire Transfer Confirmation DWSD.PDF

Just an update... we are working on the wire transfer to the City 'as we speak'. We also have their supporting info for their payt to DWSD.

From: Natasha Henderson [mailto:nhenderson@cityofflint.com]
Sent: Thursday, October 22, 2015 3:23 PM
To: Byrne, Randall (Treasury) <ByrneR1@michigan.gov>
Subject: Fwd: Wire Transfer Information

Hello Randy,

You were included in this email.

Thanks,

Natasha L. Henderson, City Administrator
City of Flint, Michigan
1101 S. Saginaw St.
Flint, MI 48502
Email: nhenderson@cityofflint.com
Phone: (810) 237-2057
www.cityofflint.com

---------- Forwarded message ----------
From: **Jody Lundquist** <jlundquist@cityofflint.com>
Date: Thu, Oct 22, 2015 at 2:27 PM
Subject: Wire Transfer Information
To: saxtont@michigan.gov, "Sygo, Jim (DEQ)" <sygoj@michigan.gov>, byrner1@michigan.gov
Cc: Natasha Henderson <nhenderson@cityofflint.com>

Good afternoon, Gentlemen.

Please find the City's wire transfer information below.

PPI

A copy of the outgoing wire transfer confirmations totaling $10 million is attached. The first wire was sent to DWSD on Friday, October 16, in the amount of $2 million. The remaining balance of $8 million was sent on Monday, October 19, in two separate transactions of $3 and $5 million due to max transfer limitations.

Please let me know if you have any questions or if I may be of any further assistance.

Best regards,

Jody N. Lundquist
Chief Financial Officer
City of Flint
1101 S. Saginaw Street, 2nd Floor
Flint, MI 48502
jlundquist@cityofflint.com
(810) 766-7268 ext. 2301

From: Minicuci, Angela (DHHS)
Sent: Friday, October 23, 2015 1:07 PM
To: Murray, David (GOV); Wurfel, Brad (DEQ); Wurfel, Sara (GOV); Brown, Jessica (GOV)
Cc: Lasher, Geralyn (DHHS); Eisner, Jennifer (DHHS); Ridley, Nancy (DHHS)
Subject: RE: Letters
Attachments: Provider letter_DRAFT3_edited.docx; Parent Letter_Draft 5_October 22.docx; GCHD MDHHS Letters PR DRAFT 2.docx

Importance: High

Hi everyone,

Following up on this. Do you have any concerns or edits? Additionally, we are working with GCHD to issue a joint release when these letters are sent. That's attached for your reference as well.

Thank you,

Angela

From: Minicuci, Angela (DHHS)
Sent: Friday, October 23, 2015 9:12 AM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Brown, Jessica (GOV) (BrownJ53@michigan.gov) <BrownJ53@michigan.gov>
Cc: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>; Ridley, Nancy (DHHS) <RidleyN@michigan.gov>
Subject: Letters

Good morning,

Attached are the parent and provider letters that we have been working on. These are on the fast track and we need comments back to us as soon as possible.

Thank you,

Angela Minicuci
Office of External Relations and Communications
Michigan Department of Health and Human Services
Office: (517) 241-2112
Mobile: PPI
minicuciA@michigan.gov
www.michigan.gov/mdhhs

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PROVIDER DRAFT LETTER V.2
October 22, 2015
LoRocco Edits,Travis Edits,Attisha Edits, Peeler Edits
Cross checked with parent letter

Dear Provider:

As you may be aware from recent news reports, elevated levels of lead have been found in the City of Flint's water system.

To help protect the children of Flint from the current lead in water exposure, the Genesee County Health Department and Michigan Department of Health and Human Services are contacting you to assist you in providing guidance to support your families.

Children can be exposed to lead from drinking water in lead pipes, old lead paint, soil, pottery, cosmetics and toys and some home remedies. Adult jobs and hobbies, like auto repair, stained glass and jewelry making, and ammunitions handling can also put children at risk if they touch clothing or play in areas where lead is found.

As a primary care provider, you play a critical role in helping to ensure that children and families exposed to lead receive the care and reassurances they need to manage the potential health impacts of lead poisoning.

Identification. Children suffering from lead poisoning often fail to present outward symptoms. However, early clinical symptoms can include anemia, anorexia, abdominal pain and constipation. Lead is a neuro-toxin, and exposure can result in violent and aggressive behaviors, lead to learning disorders, may cause Attention Deficit Hyperactivity Disorder (ADHD) and has been known to reduce IQ by as many as 5-8 points with levels as low as 10 ug/dL. Lead is metabolized through the gastrointestinal system similar to iron and calcium, with uptake rates depending on the size and weight of the child. The blood half-life of lead is short (approximately 1 month) but the bone half-life can extend into decades.

Due to multiple risk factors facing many residents in the City of Flint (including aging housing conditions and water quality), we recommend that all children under age 6 living in the City of Flint or living in homes that use Flint water, attending school or childcare in Flint, or who spend time with a caregiver in the City of Flint, receive a blood lead test. Blood lead testing should be done through a child's primary care doctor to ensure adequate short-term and long-term follow-up. ***Families should be encouraged to have their children tested immediately either at their doctor's office or the Genesee County Health Department***.

draft

PROVIDER DRAFT LETTER V.2
October 22, 2015
LoRocco Edits,Travis Edits,Attisha Edits, Peeler Edits
Cross checked with parent letter

Management of Blood Lead Levels. The following guidance is provided for management of childhood blood lead levels:

- **BLL < 5 ug/dL**
  - A lead level of less than 5 mcg/dL is not typically cause for concern.
  - Provide education and anticipatory guidance to ensure that lead levels do not rise.
  - Consider retesting in 12 months based on risk factors or concerns.
- **BLL >5 ug/dL**
  - **Children with capillary results of 5 ug/dL and higher must have a confirmatory venous blood draw.**
  - Families should receive anticipatory guidance, nutrition counseling, instruction on safe cleaning techniques and appropriate follow-up care from their primary care provider.
  - In-home services including case management and environmental investigations are available for all children with lead levels greater than 5 ug/dL. Refer patients to the Genesee County Health Department for this service.
  - Children with confirmed venous testing results greater than 5ug/dL within the past 18 months must be retested based on Medicaid policy and AAP guidelines. (See attached "Provider Quick Reference). If a child has not been retested within these timeframes, retesting is recommended as soon as possible.
- **BLL > 44 ug/dL.**
  - **Children with capillary results of 5 ug/dL and higher must have a confirmatory venous blood draw.**
  - Lead levels over 44 ug/dL may require hospitalization. Consult with an expert at the Children's Hospital of Michigan in Detroit for additional guidance.
  - Families should receive anticipatory guidance, nutrition counseling, instruction on safe cleaning techniques and appropriate follow-up care from their primary care provider.
  - In-home services including case management and environmental investigations are available for all children with lead levels greater than 5 ug/dL. Refer patients to the Genesee County Health Department for this service.
  - Children with confirmed venous testing results greater than 5ug/dL within the past 18 months must be retested based on Medicaid policy and AAP guidelines. (See attached "Provider Quick Reference). If a child has not been retested within these timeframes, retesting is recommended as soon as possible.

Reminder: All children covered by Medicaid must be tested at age 1 and 2.

draft

PROVIDER DRAFT LETTER V.2
October 22, 2015
LoRocco Edits,Travis Edits,Attisha Edits, Peeler Edits
Cross checked with parent letter

Follow-up Care. As providers, there are steps you can take to help support your families:

1. Continue to educate families regarding lead risks and preventative steps that they can take to minimize their risks.
2. Encourage your families to use filtered water for drinking, mixing formula and washing dishes. Families can contact 2-1-1 for information on free water filters.
3. Healthy nutrition is critical for lead-exposed children. Make sure your patients are consuming balanced diets high in iron, calcium and Vitamin C. If you have concerns about their nutrition, consider recommending a multivitamin with iron. WIC and SNAP provide assistance to parents and children who need fresh and healthy foods. Contact the Genesee County WIC office at (810) 237-4537 to learn more. In addition, SNAP offers a Double Bucks program that can provide healthy foods for less.
4. Breastfeeding is highly protective and encouraged. However, if the mother's blood lead level rises above 40ug/dL or her level is greater than 20 ug/dL and the baby has a level above 5 ug/dL breastfeeding is not recommended.
5. Because lead is a neuro-toxin, children with lead poisoning need longitudinal follow-up and may require developmental and behavioral health intervention services. Continue monitoring your patients' development at every visit.
6. Consider additional wrap-around and support services that will benefit your patients such as early childhood home visiting programs, early head start and head start. Call 2-1-1 for more information.

Local Resources. Several local resources are available to you and your patients:

- Blood Testing. Patients are encouraged to contact their primary care provider for testing. The Genesee County Health Department also administers lead tests. Patients in need of transportation should contact 2-1-1 for assistance.
- Water Testing. Water testing is free through the City of Flint Water Testing Plant. Patients can call 810-787-6537 to learn more.
- WIC and SNAP provide assistance to parents and children who need fresh and healthy foods. Contact the Genesee County WIC office at (810) 237-4537 to learn more.
- Child Development. If you have concerns about a child's growth, development or learning contact 2-1-1 for a Home Visiting Program in your area.

Websites and contact information.

- Genesee County Health Department Lead Program
  (810) 287-3833

- Michigan Department of Health and Human Services Childhood Lead Poisoning Prevention Program
  (888) 322-4453

- Michigan Department of Health and Human Services Lead Poisoning Prevention Video for Primary Care Providers on Youtube at /www.youtube.com/watch?v=AnkjCW_yGaU&feature=youtu.be.

draft

PROVIDER DRAFT LETTER V.2
October 22, 2015
LoRocco Edits,Travis Edits,Attisha Edits, Peeler Edits
Cross checked with parent letter

- www.michigan.gov/lead
  United States Environmental Protection Agency
  www.epa.gov/lead

- U.S. Centers for Disease Control and Prevention (CDC) Web site
  www.cdc.gov/nceh/lead

draft 3

October 22, 2015

Dear Parent,

To help make sure the children of Flint are safe from lead exposure, the Genesee County Health Department and the Michigan Department of Health and Human Services want to help you understand:

- Where does lead come from?
- What can I do to protect my family?
- Should I get my child tested for lead?
- Where can I find more information about lead?

Where does lead come from?

Lead is a serious health hazard, especially for small children who become lead poisoned when they eat, drink or breathe lead. Elevated levels of lead have been found in the drinking water from lead pipes in the City of Flint. Kids can also be exposed to lead from old lead paint, soil, pottery, cosmetics and toys and some home remedies. Adult jobs and hobbies, like auto repair, stained glass, jewelry making and ammunitions handling can also put children at risk if they touch clothing or play in areas where lead is found.

Should my child get a blood lead test?

Children who live in the City of Flint, live in a home using City of Flint water, or who attend school, childcare or often spend time with a caregiver in the City of Flint should be tested for lead poisoning. *This should be done as soon as possible.*

Where should I go to get a blood lead test for my child?

The best place to get your child's blood lead test is your doctor's office. Your pediatrician will follow up with you on lab tests and provide you with information on what to do next. You can also have a lead test at the Genesee County Health Department. If you need transportation, contact 2-1-1 for help.

Understanding your child's lead test result.

A lead level below 5 means there is little or no lead in your child's blood. Use the tips below to help keep your child safe. Your doctor may suggest retesting your child within the next 12 months to make sure the level does not go up.

Draft 5

A lead level of 5-14 means that your child has had some exposure to lead. Work with your doctor and local health department for further guidance on how to limit your lead exposure. Your doctor may retest your child in 1-3 months to make sure the level does not go up.

Children with very high levels of lead **(over 40)** may require treatment at the hospital.

What Can I Do to Keep My Family Safe?

The following steps should be taken right away to help protect you and your child.

Protecting your family from lead in the water:

- Get your water tested for lead. It's free. Call 810-787-6537 to learn more.
- Use a water filter in your home. Call 2-1-1 for information on free water filters.
- If you do not have a water filter, use bottled water for drinking and mixing formula.
- When cooking or washing the dishes use filtered water. If using unfiltered water, run the water for at least five minutes before you use it.
- Always use cold water when cooking.

Safe cleaning:

Safe Cleaning is Important. Keeping your home clean and safe from lead hazards will help to protect your family.

- Keep children away from lead paint and dust.
- Use wet paper towels to clean up lead dust. Be sure to clean around windows, play areas and floors.
- Wash hands and toys often, using soap and water

Good nutrition:

Some foods will help keep lead from being stored in a child's body. These are foods with a lot of calcium, iron and vitamin C. These foods include:

Calcium Rich Foods	Iron Rich Foods	Foods with Vitamin C
➢ Milk	➢ Beans	➢ Oranges
➢ Cheese	➢ Lean meats like fish and chicken	➢ Orange juice
➢ Yogurt	➢ Whole grain cereals	➢ Grapefruits
➢ Tofu	➢ Peanut butter	➢ Tomatoes
➢ Spinach		➢ Green peppers

Always wash your fruits with filtered water. If you are concerned about your child's diet, talk with your pediatrician who may also recommend a daily multivitamin.

Draft

WIC and SNAP provide assistance to parents and children who need fresh and healthy foods. Contact the **Genesee County WIC office at (810) 237-4537** to learn more. SNAP also offers a Double Bucks program to purchase even more healthy food for no additional costs.

Where can I get more information on lead?

- Genesee County Health Department Lead Program
  (810) 287-3833
- Michigan Department of Health and Human Services Childhood Lead Poisoning Prevention Program
  (888) 322-4453
  www.michigan.gov/lead
- United States Environmental Protection Agency
  www.epa.gov/lead
- U.S. Centers for Disease Control and Prevention (CDC) Web site
  www.cdc.gov/nceh/lead

Draft 5

GCHD and MDHHS Partner to Issue Guidance to Flint Parents, Providers

FLINT, Mich. – In a joint effort to continue education within the community around lead exposure, the Genesee County Health Department (GCHD) and Michigan Department of Health and Human Services (MDHHS) today issued letters to the provider community and parents in Flint to assist in providing guidance to support families.

In response to the elevated blood lead levels found in some Flint children, GCHD and MDHHS have worked together closely and with Dr. Mona Hanna-Attisha of the Hurley Medical Center to develop guidance for families and providers.

GCHD QUOTE

Parents are being provided information regarding lead testing, how to reduce lead exposure for your family, where lead comes from, and community and state resources for more information. Children can be exposed to lead from drinking water in lead pipes, old lead paint, soil, pottery, cosmetics and toys and some home remedies. Adult jobs and hobbies, like auto repair, stained glass and jewelry making, and ammunitions handling can also put children at risk if they touch clothing or play in areas where lead is found.

"As we continue to find ways to educate and guide the Flint community towards reducing lead exposures, we are appreciate of the collaboration with Genesee County Health Department and Dr. Attisha," said Dr. Eden Wells, Chief Medical Executive with MDHHS. "Parents and providers can take a number of steps to help reduce exposure, identify signs of lead poisoning, and begin follow up care as needed. Working together we can all help to protect the health of families in Flint."

Primary care providers can assist in helping to ensure that children and families exposed to lead receive the care and resources they need to manage the potential health impacts of lead poisoning. Guidance was provided to them regarding identification of lead poisoning, management of elevated blood lead levels, follow-up care, and community and state resources.

GCHD and MDHHS issued the following recommendations for parents:

- Families who live in the City of Flint and are on the Flint water system or who attend school, childcare, or spend time with a caregiver in the City of Flint, are encouraged to get their children tested for lead poisoning at their doctor's office or GCHD.
- Families can get their water tested for lead for free. Call 810-787-6537 for details about how.
- Families are encouraged to use a water filter in their home, and free filters are still available. Call 2-1-1 for information about where to pick up a free filter.
- When cooking or washing the dishes, use filtered water. If using unfiltered water, run the water for at least give minutes before you use it. Always use cold water when cooking.
- Safe cleaning can also reduce the risk of lead exposure in the home. Keep children away from lead paint and dust; use wet paper towels to clean up lead dust around windows, play areas and floors; and wash hands and toys often, using soap and water
- Lastly, always wash fruits with filtered water. Some foods help keep lead from being stored in the child's body, such as Calcium rich foods, Iron rich foods, and foods with Vitamin C.

GCHD and MDHHS will continue to provide more information to the community regarding reducing lead exposure and protecting the health of Flint residents. For more information, visit www.michigan.gov/lead.

# # #

From: Minicuci, Angela (DHHS)
Sent: Sunday, October 25, 2015 1:43 PM
To: Wurfel, Sara (GOV); Murray, David (GOV); Wurfel, Brad (DEQ); Brown, Jessica (GOV)
Cc: Lasher, Geralyn (DHHS); Eisner, Jennifer (DHHS); Ridley, Nancy (DHHS)
Subject: Re: Letters
Attachments: GCHD MDHHS Letters PR DRAFT 5 102515.docx; Parent Letter_Draft 8 102515.docx; Provider letter_DRAFT5 102515.docx

Hi everyone,

Attached are the updated drafts of the letters and press release with Sara's edits. We'll circulate these with the local health department and let you know before these are ready to be sent out.

Thank you.
Angela

From: Wurfel, Sara (GOV)
Sent: Friday, October 23, 2015 5:35 PM
To: Minicuci, Angela (DHHS); Murray, David (GOV); Wurfel, Brad (DEQ); Brown, Jessica (GOV)
Cc: Lasher, Geralyn (DHHS); Eisner, Jennifer (DHHS); Ridley, Nancy (DHHS)
Subject: RE: Letters

Angela – there are two things that do need to get addressed before these go out. I left a message earlier.

Please call at your earliest convenience. Mobile will be best, PPI

Glad and good to see this kind of coordination/collaboration and outreach.

Thanks much,
SW

From: Minicuci, Angela (DHHS)
Sent: Friday, October 23, 2015 1:07 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>
Cc: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>; Ridley, Nancy (DHHS) <RidleyN@michigan.gov>
Subject: RE: Letters
Importance: High

Hi everyone,

Following up on this. Do you have any concerns or edits? Additionally, we are working with GCHD to issue a joint release when these letters are sent. That's attached for your reference as well.

Thank you,

Angela

From: Minicuci, Angela (DHHS)
Sent: Friday, October 23, 2015 9:12 AM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Brown, Jessica (GOV) (BrownJ53@michigan.gov) <BrownJ53@michigan.gov>
Cc: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>; Ridley, Nancy (DHHS) <RidleyN@michigan.gov>
Subject: Letters

Good morning,

Attached are the parent and provider letters that we have been working on. These are on the fast track and we need comments back to us as soon as possible.

Thank you,

Angela Minicuci

Office of External Relations and Communications
Michigan Department of Health and Human Services
Office: (517) 241-2112
Mobile: PPI
minicuci@michigan.gov
www.michigan.gov/mdhhs

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FOR IMMEDIATE RELEASE – DRAFT
GCHD CONTACT:
MDHHS CONTACT: Jennifer Eisner, (517) 241-2112, EisnerJ@michigan.gov

GCHD and MDHHS Partner to Issue Guidance to Flint Parents, Providers

FLINT, Mich. – In a joint effort to continue informing the community about lead exposure, the Genesee County Health Department (GCHD) and Michigan Department of Health and Human Services (MDHHS) today issued letters to parents and the provider community in Flint to assist in providing guidance to support families.

In response to the elevated blood lead levels found in some Flint children, GCHD and MDHHS have worked together closely to develop guidance for families and providers.

GCHD QUOTE

Parents are being provided information regarding lead testing, how to reduce lead exposure for your family, where lead comes from, and community and state resources for more information. Children can be exposed to lead from drinking water in lead pipes, old lead paint, soil, pottery, cosmetics and toys and some home remedies. Adult jobs and hobbies, like auto repair, stained glass and jewelry making, and ammunitions handling can also put children at risk if they touch clothing or play in areas where lead is found.

"As we continue to find ways to inform and guide the Flint community towards reducing lead exposures, we are appreciate of the collaboration with Genesee County Health Department," said Dr. Eden Wells, Chief Medical Executive with MDHHS. "Parents and providers can take a number of steps to help reduce exposure, identify signs of lead poisoning, and begin follow up care as needed. Working together we can all help to protect the health of families in Flint."

Primary care providers can assist in helping to ensure that children and families exposed to lead receive the care and resources they need to manage the potential health impacts of lead poisoning. MDHHS and GCHD worked with Dr. Mona Hanna-Attisha of the Hurley Medical Center to develop testing protocols and guidance regarding identification of lead poisoning, management of elevated blood lead levels, follow-up care, and community and state resources.

GCHD and MDHHS issued the following recommendations for parents:

- Families who live in the City of Flint and are on the Flint water system or who attend school, childcare, or spend time with a caregiver in the City of Flint, are encouraged to get their children tested for lead poisoning at their doctor's office or GCHD.
- Families can get their water tested for lead for free. Call 810-787-6537 for details about how.
- Families are encouraged to use a water filter in their home, and free filters are still available. Call 2-1-1 for information about where to pick up a free filter.
- Use filtered tap water for drinking (including making coffee, drink mixes, juice, baby formula), and cooking (even if you boil the water, the lead will stay in the water and food). Always use cold water when cooking.
- You can use unfiltered tap water for washing your hands, and washing dishes. If using unfiltered water, run the water for at least five minutes before you use it.
- Safe cleaning can also reduce the risk of lead exposure in the home. You can use unfiltered tap water for the following wiping down countertops, mopping floors, and washing clothes.

- Keep children away from lead paint and dust; use wet paper towels to clean up lead dust around windows, play areas and floors; and wash hands and toys often, using soap and water
- Lastly, always wash fruits with filtered water. Some foods help keep lead from being stored in the child's body, such as Calcium rich foods, Iron rich foods, and foods with Vitamin C.

GCHD and MDHHS will continue to provide more information to the community regarding reducing lead exposure and protecting the health of Flint residents. For more information, visit www.michigan.gov/lead.

# # #

October 25, 2015

Dear Parent,

To help make sure the children of Flint are safe from lead exposure, the Genesee County Health Department and the Michigan Department of Health and Human Services want to help you understand:

- Where does lead come from?
- What can I do to protect my family?
- Should I get my child tested for lead?
- Where can I find more information about lead?

Where does lead come from?

Lead is a serious health hazard, especially for small children who become lead poisoned when they eat, drink or breathe lead. Elevated levels of lead have been found in the drinking water from lead pipes in the City of Flint. Kids can also be exposed to lead from old lead paint, soil, pottery, cosmetics and toys and some home remedies. Adult jobs and hobbies, like auto repair, stained glass, jewelry making and ammunitions handling can also put children at risk if they touch clothing or play in areas where lead is found.

Should my child get a blood lead test?

Children who live in the City of Flint, live in a home using City of Flint water, or who attend school, childcare or often spend time with a caregiver in the City of Flint should be tested for lead poisoning. *This should be done as soon as possible.*

Where should I go to get a blood lead test for my child?

The best place to get your child's blood lead test is your doctor's office. Your pediatrician will follow up with you on lab tests and provide you with information on what to do next. You can also have a lead test at the Genesee County Health Department. If you need transportation, contact 2-1-1 for help.

Understanding your child's lead test result.

A lead level below 5 means there is little or no lead in your child's blood. Use the tips below to help keep your child safe. Your doctor may suggest retesting your child within the next 12 months to make sure the level does not go up.

Draft 5

A lead level of 5-14 means that your child has had some exposure to lead. Work with your doctor and local health department for further guidance on how to limit your lead exposure. Your doctor may retest your child in 1-3 months to make sure the level does not go up.

Children with very high levels of lead **(over 40)** may require treatment at the hospital.

What Can I Do to Keep My Family Safe?

The following steps should be taken right away to help protect you and your child.

Protecting your family from lead in the water:

- Get your water tested for lead. It's free. Call (810) 787-6537 to learn more.
- Use a water filter in your home. Call 2-1-1 for information on free water filters.
- If you do not have a water filter, use bottled water for drinking and mixing formula.
- Use filtered tap water for drinking (including making coffee, drink mixes, juice, baby formula), and cooking (even if you boil the water, the lead will stay in the water and food). Always use cold water when cooking.
- You can use unfiltered tap water for washing your hands, and washing dishes. If using unfiltered water, run the water for at least five minutes before you use it.

Safe cleaning:

Safe Cleaning is important. Keeping your home clean and safe from lead hazards will help to protect your family.

- You can use unfiltered tap water for the following wiping down countertops, mopping floors, and washing clothes.
- Keep children away from lead paint and dust.
- Use wet paper towels to clean up lead dust. Be sure to clean around windows, play areas and floors.
- Wash hands and toys often, using soap and water.

Good nutrition:

Some foods will help keep lead from being stored in a child's body. These are foods with a lot of calcium, iron and vitamin C. These foods include:

Calcium Rich Foods	Iron Rich Foods	Foods with Vitamin C
➢ Milk	➢ Beans	➢ Oranges
➢ Cheese	➢ Lean meats like fish and chicken	➢ Orange juice
➢ Yogurt	➢ Whole grain cereals	➢ Grapefruits
➢ Tofu	➢ Peanut butter	➢ Tomatoes
➢ Spinach		➢ Green peppers

Always

wash your fruits with filtered water. If you are concerned about your child's diet, talk with your pediatrician who may also recommend a daily multivitamin.

WIC and SNAP provide assistance to parents and children who need fresh and healthy foods. Contact the **Genesee County WIC office at (810) 237-4537** to learn more. SNAP also offers a Double Bucks program to purchase even more healthy food for no additional costs.

Where can I get more information on lead?

- Genesee County Health Department Lead Program
  (810) 257-3833
- Michigan Department of Health and Human Services Childhood Lead Poisoning Prevention Program
  (888) 322-4453
  www.michigan.gov/lead
- United States Environmental Protection Agency
  www.epa.gov/lead
- U.S. Centers for Disease Control and Prevention (CDC) Web site
  www.cdc.gov/nceh/lead

Draft 5

PROVIDER DRAFT LETTER V.5
October 25, 2015
LoRocco Edits,Travis Edits,Attisha Edits, Peeler, Minicuci Edits
Cross checked with parent letter

Dear Provider:

As you may be aware from recent news reports, elevated levels of lead have been found in lead pipes within the City of Flint's water system.

To help protect the children of Flint from the current lead in water exposure, the Genesee County Health Department and Michigan Department of Health and Human Services are contacting you to assist you in providing guidance to support your families.

Children can be exposed to lead from drinking water in lead pipes, old lead paint, soil, pottery, cosmetics and toys and some home remedies. Adult jobs and hobbies, like auto repair, stained glass and jewelry making, and ammunitions handling can also put children at risk if they touch clothing or play in areas where lead is found.

As a primary care provider, you play a critical role in helping to ensure that children and families exposed to lead receive the care and reassurances they need to manage the potential health impacts of lead poisoning.

Identification. Children suffering from lead poisoning often fail to present outward symptoms. However, early clinical symptoms can include anemia, anorexia, abdominal pain and constipation. Lead is a neuro-toxin, and exposure can result in violent and aggressive behaviors, lead to learning disorders, may cause Attention Deficit Hyperactivity Disorder (ADHD) and has been known to reduce IQ by as many as 5-8 points with levels as low as 10 ug/dL. Lead is metabolized through the gastrointestinal system similar to iron and calcium, with uptake rates depending on the size and weight of the child. The blood half-life of lead is short (approximately 1 month) but the bone half-life can extend into decades.

Due to multiple risk factors facing many residents in the City of Flint (including aging housing conditions and water quality), we recommend that all children under age 6 living in the City of Flint or living in homes that use Flint water, attending school or childcare in Flint, or who spend time with a caregiver in the City of Flint, receive a blood lead test. Blood lead testing should be done through a child's primary care doctor to ensure adequate short-term and long-term follow-up. ***Families should be encouraged to have their children tested immediately either at their doctor's office or the Genesee County Health Department***.

Management of Blood Lead Levels. The following guidance is provided for management of childhood blood lead levels:

- **BLL < 5 ug/dL**
  - A lead level of less than 5 mcg/dL is not typically cause for concern.
  - Provide education and anticipatory guidance to ensure that lead levels do not rise.
  - Consider retesting in 12 months based on risk factors or concerns.
- **BLL >5 ug/dL**
  - **Children with capillary results of 5 ug/dL and higher must have a confirmatory venous blood draw.**
  - Families should receive anticipatory guidance, nutrition counseling, instruction on safe cleaning techniques and appropriate follow-up care from their primary care provider.

draft

PROVIDER DRAFT LETTER V.5
October 25, 2015
LoRocco Edits,Travis Edits,Attisha Edits, Peeler, Minicuci Edits
Cross checked with parent letter

- In-home services including case management and environmental investigations are available for all children with lead levels greater than 5 ug/dL. Refer patients to the Genesee County Health Department for this service.
- Children with confirmed venous testing results greater than 5ug/dL within the past 18 months must be retested based on Medicaid policy and AAP guidelines. (See attached "Provider Quick Reference). If a child has not been retested within these timeframes, retesting is recommended as soon as possible.

- **BLL > 44 ug/dL.**
  - **Children with capillary results of 5 ug/dL and higher must have a confirmatory venous blood draw.**
  - Lead levels over 44 ug/dL may require hospitalization. Consult with an expert at the Children's Hospital of Michigan in Detroit for additional guidance.
  - Families should receive anticipatory guidance, nutrition counseling, instruction on safe cleaning techniques and appropriate follow-up care from their primary care provider.
  - In-home services including case management and environmental investigations are available for all children with lead levels greater than 5 ug/dL. Refer patients to the Genesee County Health Department for this service.
  - Children with confirmed venous testing results greater than 5ug/dL within the past 18 months must be retested based on Medicaid policy and AAP guidelines. (See attached "Provider Quick Reference). If a child has not been retested within these timeframes, retesting is recommended as soon as possible.

Reminder: All children covered by Medicaid must be tested at age 1 and 2.

Follow-up Care. As providers, there are steps you can take to help support your families:

1. Continue to inform and educate families regarding lead risks and preventative steps that they can take to minimize their risks.
2. Encourage your families to use filtered water for drinking, mixing formula and washing dishes. Families can contact 2-1-1 for information on free water filters.
3. Healthy nutrition is critical for lead-exposed children. Make sure your patients are consuming balanced diets high in iron, calcium and Vitamin C. If you have concerns about their nutrition, consider recommending a multivitamin with iron. WIC and SNAP provide assistance to parents and children who need fresh and healthy foods. Contact the Genesee County WIC office at (810) 237-4537 to learn more. In addition, SNAP offers a Double Bucks program that can provide healthy foods for less.
4. Breastfeeding is highly protective and encouraged. However, if the mother's blood lead level rises above 40ug/dL or her level is greater than 20 ug/dL and the baby has a level above 5 ug/dL breastfeeding is not recommended.
5. Because lead is a neuro-toxin, children with lead poisoning need longitudinal follow-up and may require developmental and behavioral health intervention services. Continue monitoring your patients' development at every visit.
6. Consider additional wrap-around and support services that will benefit your patients such as early childhood home visiting programs, early head start and head start. Call 2-1-1 for more information.

draft

PROVIDER DRAFT LETTER V.5
October 25, 2015
LoRocco Edits,Travis Edits,Attisha Edits, Peeler, Minicuci Edits
Cross checked with parent letter

Local Resources. Several local resources are available to you and your patients:

- Blood Testing. Patients are encouraged to contact their primary care provider for testing. The Genesee County Health Department also administers lead tests. Patients in need of transportation should contact 2-1-1 for assistance.
- Water Testing. Water testing is free through the City of Flint Water Testing Plant. Patients can call 810-787-6537 to learn more.
- WIC and SNAP provide assistance to parents and children who need fresh and healthy foods. Contact the Genesee County WIC office at (810) 237-4537 to learn more.
- Child Development. If you have concerns about a child's growth, development or learning contact 2-1-1 for a Home Visiting Program in your area.

Websites and contact information.

- Genesee County Health Department Lead Program
  (810) 257-3833

- Michigan Department of Health and Human Services Childhood Lead Poisoning Prevention Program
  (888) 322-4453

- Michigan Department of Health and Human Services Lead Poisoning Prevention Video for Primary Care Providers on Youtube at /www.youtube.com/watch?v=AnkjCW_yGaU&feature=youtu.be.

- www.michigan.gov/lead
  United States Environmental Protection Agency
  www.epa.gov/lead

- U.S. Centers for Disease Control and Prevention (CDC) Web site
  www.cdc.gov/nceh/lead

draft 3

From: Kiertzner, James <jim.kiertzner@wxyz.com>
Sent: Wednesday, October 28, 2015 1:12 PM
To: Wurfel, Sara (GOV)
Subject: Re: Requesting on camera interview with the Governor

Come on I'm talking 15 minutes max.

Just give me enough time to be where I need to be especially if it is Lansing.

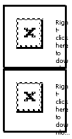
Jim

Sent from my iPhone

On Oct 28, 2015, at 12:36 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

> Hi there Jim –
>
> Gov's schedule is really, really challenging over next couple of weeks for any 1:1s like this, and best we may be able to do is something at media avails at regularly scheduled events or quick pull aside from there.
>
> But will see what can do.
>
> Thanks for reaching out and more soon,
> SW
>
> ---
>
> **From:** Kiertzner, James [mailto:jim.kiertzner@wxyz.com]
> **Sent:** Wednesday, October 28, 2015 10:37 AM
> **To:** Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
> **Subject:** Requesting on camera interview with the Governor
>
> In the next week or so, I'm requesting an on camera interview with the Governor on these topics:
>
> **Not Responsive**
>
> Flint Water
>
> Let me know when you can.
>
> We could do in metro Detroit, or come up to Lansing.
>
> Thanks in advance,

Jim



Jim Kiertzner
7 Investigator
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From: Wurfel, Brad (DEQ)
Sent: Wednesday, October 28, 2015 1:34 PM
To: Murray, David (GOV); Wurfel, Sara (GOV)
Subject: DRAFT DELIBERATIVE Freeman Elementary Sample-Assessment-Recommendations-Draft v2.docx
Attachments: Freeman Elementary Sample-Assessment-Recommendations-Draft v2.docx

Heads up, here's the report from the Elementary school we sampled last weekend.
Working with DHHS to coordinate release of blood lead level data with recent water sampling data, including this report. I think this is the format we're going to use for all 13 Flint Schools. It gives the schools folks specific, easy to read info about our findings and what they suggest the school should consider doing.
Call me if you have questions.
Thanks,
b

From: Feuerstein, Heather (DEQ)
Sent: Wednesday, October 28, 2015 1:24 PM
To: Busch, Stephen (DEQ); Krisztian, George (DEQ); Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ)
Subject: Freeman Elementary Sample-Assessment-Recommendations-Draft v2.docx

Freeman Elementary School – Outlet Sampling and Plumbing Assessment Recommendations

Background Information

A plumbing assessment of Freeman Elementary school was completed by Department of Licensing Regulatory Affairs (DLARA) and Department of Environmental Quality (DEQ) staff on Friday October 23, 2015. The plumbing assessment identified 31 outlets where water is used for drinking, cooking, and/or food preparation. From the plumbing assessment, a sampling sequence was developed based on the information available regarding the school's plumbing layout.

Potential sources of lead leaching into drinking water identified in the assessment include:

- Lead solder joints on copper piping
- Brass valves and brass fittings
- Brass components in fixtures
- Galvanized piping

Sampling was completed by DEQ and DLARA staff on Saturday October 24, 2015.

- Sampling was completed following a stagnation period of 12 hours.
- Sampling was conducted in accordance with the sampling protocol dated October 23, 2015. (see attached)
- Sampling followed the sequence based on the assessment that was conducted on Friday, October 23, 2015.

A set of four samples were collected at each outlet.

- Two initial 125 milliliter samples,(P1 and P2)
- A third 125 milliliter sample (F1) following a 30 second flushing period, and
- A fourth 125 milliliter sample (F2) following an additional two minute flushing period.

Water Service Information

A four inch diameter cast iron water service line enters the school in the boiler room on the west wall. Piping in the boiler room immediately transitions into galvanized metal piping for cold water lines. Two separate galvanized cold water supply lines exit the boiler room. One in the northeast corner appears to serve the gym, auditorium, and proposed pre-K facilities on the north end of the school. The other exits the boiler room in the southwest corner and appears to serve the remainder of the school to the south, including the library. This line was also found to have grounding connections attached to the piping. Hot water is distributed in continuous loops that feed from and return to a central water heater in the boiler room. Hot water piping material where exposed was copper piping with 50/50 lead solder joints. Brass valves were seen throughout the building.

Outlets With Lead Levels Greater Than 15 Parts per Billion

Outlet: **Bubbler Drinking Fountain, Left (DW001)**
Location: Hallway outside Janitorial Room
Results: P1=40 parts per billion, P2=6 parts per billion, F1=4 parts per billion, F2=1 part per billion

These results suggest the highest contribution of lead may be from the bubbler itself. This bubbler fixture is believed to have a brass valve. The connection underneath the sink also appears to have some brass components including the valve at the wall.

Replacement of this bubbler tap and its connection plumbing with lead-free materials will significantly reduce lead exposure at this location. If replacement is not currently feasible, sample results indicate that flushing this tap for 3 minutes following periods of stagnation is likely to reduce lead concentrations and lead exposure.

Outlet: **Sink Faucet (CF029)**
Location: DHHS Health Office, west wall
Results: P1=17 parts per billion, P2=12 parts per billion, F1=2 parts per billion, F2= non-detect

These results suggest the highest contribution of lead may be from the faucet and its connecting plumbing. The faucet is a Delta 400. This model faucet valve has brass components. This style faucet also has a mixing valve that may allow mixing of hot and cold water. Connecting plumbing in the cabinet under the sink may also contain brass components.

This faucet also has an aerator at the outlet. The aerator should be removed, inspected for particulate accumulations, scrubbed clean, and reinstalled. If particulates are found, the aerator should be periodically checked and cleaned.

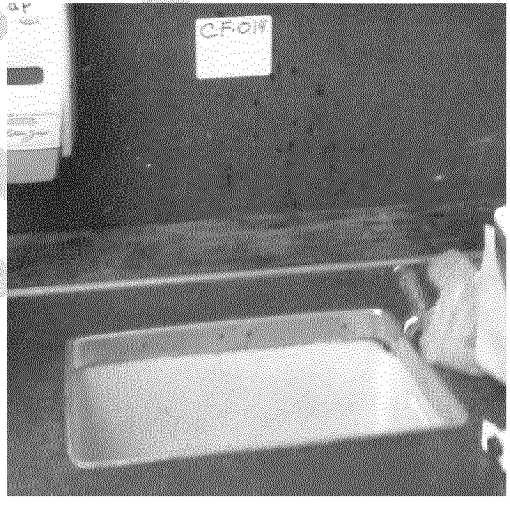
Replacement of this faucet and its connection plumbing with lead-free materials will significantly reduce lead exposure at this location. If replacement is not currently feasible, sample results indicate that flushing this tap for 3 minutes following periods of stagnation is likely to reduce lead concentrations and lead exposure.

Outlet: Integrated faucet and bubbler fountain (CF006)
Location: Classroom 2, south wall
Results: P1=16 parts per billion, P2=3 parts per billion, F1=1 part per billion, F2=1 part per billion

These results were collected from the faucet portion of the fixture and suggest the highest contribution of lead may be from the fixture itself. The make and model of this fixture is unknown but appears to be made of chrome plated brass and may be connected on the underside of the sink using a brass nipple.

Replacement of this fixture and its connection plumbing with lead-free materials will significantly reduce lead exposure at this location. If replacement is not currently feasible, sample results indicate that flushing this tap for 3 minutes following periods of stagnation is likely to reduce lead concentrations and lead exposure.

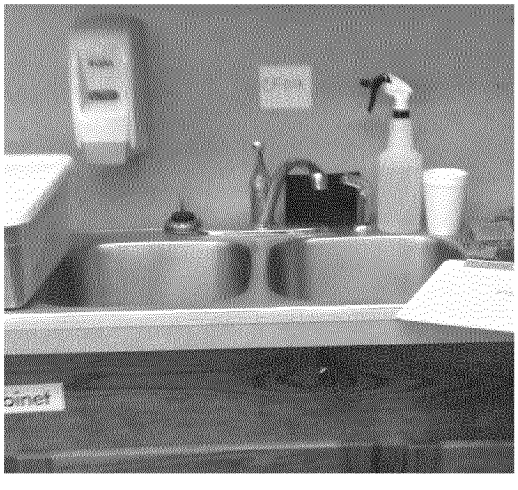
Outlet: Integrated faucet and bubbler fountain (CF014)
Location: Classroom 10, north wall
Results: P1=27 parts per billion, P2=7 parts per billion, F1=4 parts per billion, F2=3 parts per billion



These results were collected from the faucet portion of the fixture and suggest the highest contribution of lead may be from the fixture itself and its connecting plumbing. The make and model of this fixture is unknown but appears to be made of chrome plated brass and may be connected on the underside of the sink using a brass nipple. Connecting plumbing in the cabinet under the sink may also contain brass components.

Replacement of this fixture and its connection plumbing with lead-free materials will significantly reduce lead exposure at this location. If replacement is not currently feasible, sample results indicate that flushing this tap for 3 minutes following periods of stagnation is likely to reduce lead concentrations and lead exposure.

Outlet: Sink Faucet (CF013)
Location: Classroom 10, north wall
Results: P1=9 parts per billion, P2=18 parts per billion, F1=3 parts per billion, F2=3 parts per billion



These results suggest the highest contribution of lead may be from the connecting plumbing with some contribution from the faucet itself. The faucet appears to be a Delta 500 series. This model faucet may have some brass components. This style faucet also has a mixing valve that may allow mixing of hot and cold water. Connecting

DRAFT

plumbing in the cabinet under the sink should be checked for brass components including brass valves.
This faucet also has an aerator at the outlet. The aerator should be removed, inspected for particulate accumulations, scrubbed clean, and reinstalled. If particulates are found, the aerator should be periodically checked and cleaned.
Replacement of this faucet and its connection plumbing with lead-free materials will significantly reduce lead exposure at this location. If replacement is not currently feasible, sample results indicate that flushing this tap for 3 minutes following periods of stagnation is likely to reduce lead concentrations and lead exposure.

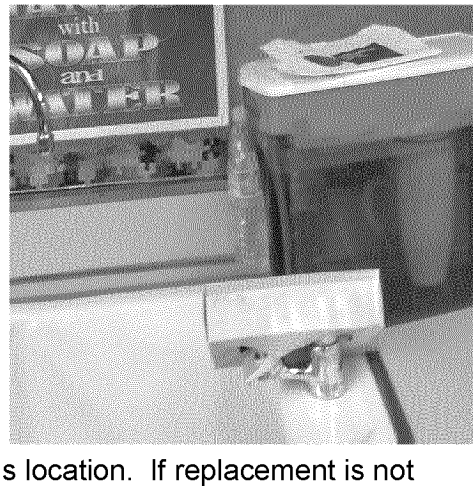
Outlet: **Sink Faucet (CF015)**
Location: Classroom 11, northeast corner
Results: P1=102 parts per billion, P2=326 parts per billion, F1=14 parts per billion, F2=11 parts per billion

These results suggest the highest contribution of lead may be from the connecting plumbing and from the faucet itself. The faucet is an older design that uses a brass tube approximately 8 inches in length between the hot and cold water valves, and connects to the outlet under the sink. This brass tube may be the primary source of lead, explaining the higher second (P2) sample result. The faucet and valves may also contain brass components. Connecting plumbing in the cabinet under the sink should be checked for additional brass components including brass valves.

This faucet also has an aerator at the outlet. The aerator should be removed, inspected for particulate accumulations, scrubbed clean, and reinstalled. If particulates are found, the aerator should be periodically checked and cleaned.

Replacement of this faucet and its connection plumbing with lead-free materials will significantly reduce lead exposure at this location and needs to be completed. If replacement is not currently feasible, **DO NOT USE THIS FAUCET.**

Outlet: **Integrated faucet and bubbler fountain (CF024)**
Location: Classroom 19, east wall
Results: P1=23 parts per billion, P2=3 parts per billion, F1=4 part per billion, F2=3 parts per billion



These results were collected from the faucet portion of the fixture and suggest the highest contribution of lead may be from the fixture itself. The make and model of this fixture is unknown but appears to be made of chrome plated brass and may be connected on the underside of the sink using a brass nipple.

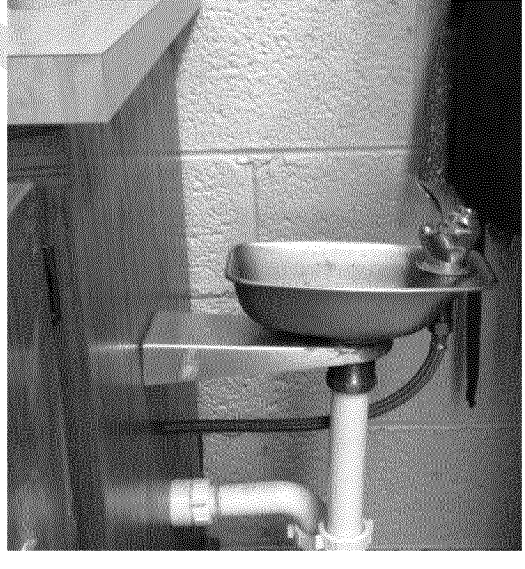
Replacement of this fixture and its connection plumbing with lead-free materials will significantly reduce lead exposure at this location. If replacement is not currently feasible, sample results indicate that flushing this tap for 3 minute following periods of stagnation is likely to reduce lead concentrations and lead exposure.

Outlet: **Bubbler fountain (CF026)**
Location: Classroom 14, west wall
Results: P1=36 parts per billion, P2=30 parts per billion, F1=17 parts per billion, F2=4 parts per billion

These results suggest the highest contribution of lead may be from the bubbler itself. This bubbler fixture appears to be made of chrome plated brass. This style bubbler typically has a 4-5 inch brass fitting that connects to a 3 inch brass nipple on the underside of the sink. This would explain the higher concentrations in the first two sample results. The connection underneath the sink may also have some brass components and should be checked including the valve.

Replacement of this bubbler tap and its connection plumbing with lead-free materials will significantly reduce lead exposure at this location and should be completed. If replacement is not currently feasible, sample results indicate that flushing this tap for 3 minutes prior to each use and for at least 4 minutes following periods of stagnation is likely to reduce lead concentrations and lead exposure. **In general, use of this fountain for drinking water should be discouraged.**

Outlet: **Bubbler fountain (CF031)**
Location: Proposed Pre-K room, south wall
Results: P1=57 parts per billion, P2=3 parts per billion, F1=2 parts per billion, F2=non-detect



These results suggest the highest contribution of lead may be from the bubbler itself. This bubbler fixture appears to be made of chrome plated brass. This bubbler has a brass fitting connection to a brass nipple. The connector hose is not expected to be contributing lead.

Replacement of this bubbler tap and its connection plumbing with lead-free materials will significantly reduce lead exposure at this location and should be completed. If replacement is not currently feasible, sample results indicate that flushing this tap for 3 minutes following periods of stagnation is likely to reduce lead concentrations and lead exposure.

DRAFT

Outlets With Lead Levels 15 Parts per Billion or Less

While the remaining 22 outlets showed sample results to be at levels requiring no further action, several recommendations have been identified.

Several of these outlets are comprised of similar materials as the outlets listed above, and could potentially experience higher lead levels under extended periods of stagnation.

This includes:

- Sink Side Bubbler Units in Room 12 (CF022), Room 5 (CF009), Room 21 (CF028), Hallway Fountain (DW002), Room 15 (CF018), Room 17 (CF020), and Room 1 (DW005).

- Integrated Faucet Bubbler Fountain Units in Room 6 (CF010), Room 9 (CF012), Room 4 (CF008), Room 3 (CF007), and Room 7 (CF011)

Replacement of these fixtures with lead-free materials is also recommended.

The fourth sample at each of these 22 outlets following approximately three minutes of use and flushing at a reduced flow reduced lead concentrations to 4 parts per billion or less. This indicates that flushing of all taps used for drinking, cooking, and/or food preparation, for 4 minutes following periods of stagnation will further reduce lead exposure. It is recommended that a flushing operational procedure be developed for use by staff responsible for plumbing operations and maintenance.

DRAFT

From: Eisner, Jennifer (DHHS)
Sent: Monday, November 02, 2015 9:51 AM
To: Murray, David (GOV); Brown, Jessica (GOV); Kennedy, Jordan (GOV); Wurfel, Sara (GOV)
Subject: MDHHS Weekly Update

Press Releases

- TBD Flint Update – Replacement Filters Available

Not Responsive

Events

Not Responsive

Jennifer Eisner
Public Information Officer
Michigan Department of Health and Human Services
Office: 517-241-2112 or EisnerJ@michigan.gov
Cell: PPI

From: Ronald Fonger <RFONGER1@mlive.com>
Sent: Monday, November 02, 2015 1:36 PM
To: Wurfel, Sara (GOV)
Subject: FW: special court

Sara:
I'm copying you on this in case Dave isn't available.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Ronald Fonger
Sent: Monday, November 02, 2015 12:10 PM
To: Murray, David (GOV) (MurrayD1@michigan.gov)
Subject: special court

Dave: We are working on a story about this news release.

Would your office care to comment?
Thanks,

PRESS ADVISORY FOR IMMEDIATE RELEASE
Contact: Sam Riddle 313 915 1557

NAN demands Michigan set up special court for lead poisoned juvenile offenders in Flint

(11/2/15 Detroit, MI)- The Michigan National Action Network (NAN) says that the State of Michigan needs to immediately set up a special court in Genesee County to hear the cases of any juvenile offenders that may have been poisoned by lead contaminants in Flint water the juveniles may have consumed.

"The recent handcuffing of a 7-year-old child by Flint police has profound implications beyond the obvious over reaction of the officer," says Sam Riddle state political director of Michigan NAN.

"Criminalization of children only enhances the grade school to prison pipeline. But now that inhumane pipeline may be aided and abetted by behavioral issues caused by lead poisoning that also can be the source for irreversible brain damage," said Riddle.

"All juvenile offenders arrested, charged or incarcerated in Genesee County that may have consumed Flint water during the period of lead contamination should be tested for lead content in their blood.

The State of Michigan should immediately establish a court to hear cases with treatment, counseling and outcomes other than incarceration for behavior the state played a central role in creating with its mishandling of Flint water," concludes Riddle.

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Brad (DEQ)
Sent: Monday, November 09, 2015 4:51 PM
To: Wyant, Dan (DEQ); Pallone, Maggie (DEQ); Krisztian, George (DEQ); Wurfel, Sara (GOV); Murray, David (GOV); Tommasulo, Karen (DEQ)
Subject: Document1
Attachments: Document1.docx

Talking points on today's data release
b

Talking Points on Freeman Announcement

Q: How do we describe the home tests?

A: The home tests are a surveillance-level screening tool. It is the same test used by the state to comply with the federal Lead and Copper Rule.

Q: SO, a safe reading doesn't mean my water is safe?

A: A low reading means there are no fixture-related issues. This screening may not catch impacts of a lead service line to the home. If a homeowner isn't sure whether they have a lead service line, the best way for homeowners to be absolutely sure is to have a certified plumber inspect their home.

Q: Does home plumbing inspection mean they dig up my yard?

A: Usually, no. A good plumber can usually assess the service line from the point of entry to the home.

Q: Was the inspection of the schools done with a different kind of testing? If so, how so?

A: Yes, the testing at the schools is a very thorough protocol designed to first determine if there are fixture-specific issues, then look deeper into the system to identify possible lead plumbing issues.

Q: What was learned by the testing at Freeman Elementary?

A: We identified 9 of 31 sites where the plumbing clearly was imparting lead into water. Importantly, we did repeated draws of the water at these spots over several minutes, and saw lead levels drop dramatically. This means the lead is in the fixtures, not in the water lines. It means the fixtures need to be addressed in some way – flushing for several minutes will help, but replacement of these fixtures offers a more permanent solution. And it means the water at Freeman is safe at 22 of the 31 sites inspected, which is of some reassurance to school officials.

Q: The City is now using water from Detroit. When will the water be free from lead again?

A: The water from Detroit is treated with phosphates, which coat the insides of lead home service lines and will reduce lead impacts. The City also will be adding additional phosphates to develop this coating more quickly, but it could take months for corrosion control to be achieved throughout the system. It is important to note that, even in systems where optimal corrosion control exists, lead components in home plumbing can still cause lead exposure. Removing lead from home plumbing is the only permanent solution to address lead in home water supplies. And testing is the best way to get an accurate sense of one's exposure. In Flint, blood testing for children is free, and surveillance testing of water for any resident also is free.

From: Wurfel, Brad (DEQ)
Sent: Tuesday, November 17, 2015 12:55 PM
To: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: RE: request for comment on congressman's letter

1. The Governor's 10-point plan for Flint recognizes the need to address lead service lines. We agree with Congressman Kildee and intend to work with the City of Flint, utilizing MI's Revolving Loan Fund program. We appreciate Congressman Kildee getting clarification from EPA that this money can be used for lead service line replacement. In fact, we've been working with Sen. Ananich and other legislative leaders to get these funds available to perform lead service line replacement.

2. The Governor's action plan addresses lead education and lead exposure. We will continue working with the city to educate its citizens and we will be making our lead exposure data available and take actions necessary to minimize risk to Flint residents from lead.

3. We appreciate the partnership between the state and local government to address the switchover to Detroit water. The State of Michigan, with support from the Legislature, provided $6 million in an agreed-upon plan with the City to contribute half of the necessary funding. Of the $6 million local half, it is important to remember the Mott Foundation provided $4 million. We want to recognize and sustain the partnership.

4. We look forward to the congressman's continued leadership to deliver federal resources to this issue.

From: Wurfel, Sara (GOV)
Sent: Tuesday, November 17, 2015 10:07 AM
To: Wyant, Dan (DEQ); Wurfel, Brad (DEQ)
Subject: FW: request for comment on congressman's letter

Calling to touch base on this.

Thanks,
SW

From: Ronald Fonger [mailto:RFONGER1@milive.com]
Sent: Tuesday, November 17, 2015 9:53 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: request for comment on congressman's letter

Hi Sara:
I've attached a copy of a letter Congressman Kildee sent to Gov. Snyder last week concerning Flint water issues.
I didn't know if there has been a formal reply and/or if you would want to comment on it.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Muchmore, Dennis (GOV)
Sent: Tuesday, November 17, 2015 1:54 PM
To: Wurfel, Sara (GOV)
Attachments: Flint Water Bills; Fwd: Flint Water Supply Alternatives; Fwd: Flint Water; KWA

From: Stibitz, Brom (DTMB)
Sent: Monday, March 04, 2013 4:00 PM
Subject: Flint Water Bills
Attachments: Water Forum - Final.ppt; WATER RATES deposits.doc

Follow Up Flag: Follow up
Flag Status: Flagged

Dennis,

There is some information attached on the Flint water issue you asked us about. I summarize a few of the key points:

- The water system has been running at deficits for years. When the previous EFM left the City in 2004, the water system has a reserve of approximately $60 million. When Mike Brown was appointed, this had turned into a $20 million deficit due to years of not passing along to consumers the rate increases of over 10% hitting the system from DWSD. Slides 5 & 6 of the attached power point show this pretty dramatically.
- Substantial increases over the past few years are an attempt to reflect the actual costs of running the system.
- Another concern raised by DHS was the increase in the deposit for rental properties. This was necessary because renters paid the previous $100 deposit, then racked up water bills in excess of this amount and walked away. Of the affidavits currently out there, 82% are past due. I would also note that this is not mandatory, it is only required if a landlord is not willing to put the water bill in their name.
- The bottom line is that they realize it is an issue, but the General Fund doesn't have the money to run general City operations, much less subsidize water rates.

The two page word document (attached) provided by the EFM gives you a good overview of what is going on. They believe that a switch to KWA is part of the solution for high water rates in the City.

Brom

City of Flint

Water Forum

5/31/2012

City Of Flint Water Forum

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Improvements for City of Flint Water System 13

City Of Flint Water History Facts

Current Treatment Plant was put into service in 1954.

Current 72" main pipeline was completed in 1970.

Flint signed a 30 year contract with Detroit Water and Sewer Department in the mid 1960's.

The contract with DWSD has expired and we are currently operating on a yearly extension.

In 2006 Flint completed a $48,000,000 upgrade of the existing Water Plant (required by the MDEQ & for backup only).

Flint's Water & Sewer System is approximately a $300,000,000 Enterprise.

Flint's Water & Sewer System is designed to deliver water to over 200,000 people with over 1,500 miles of infrastructure.

Flint's most recent census count shows a population of approximately 102,000 in 2010.

Flint's census population in 2000 was approximately 124,000.

The water system had over 45,000 customers in June of 1999.

The water system had just over 36,000 customers by June 2011.

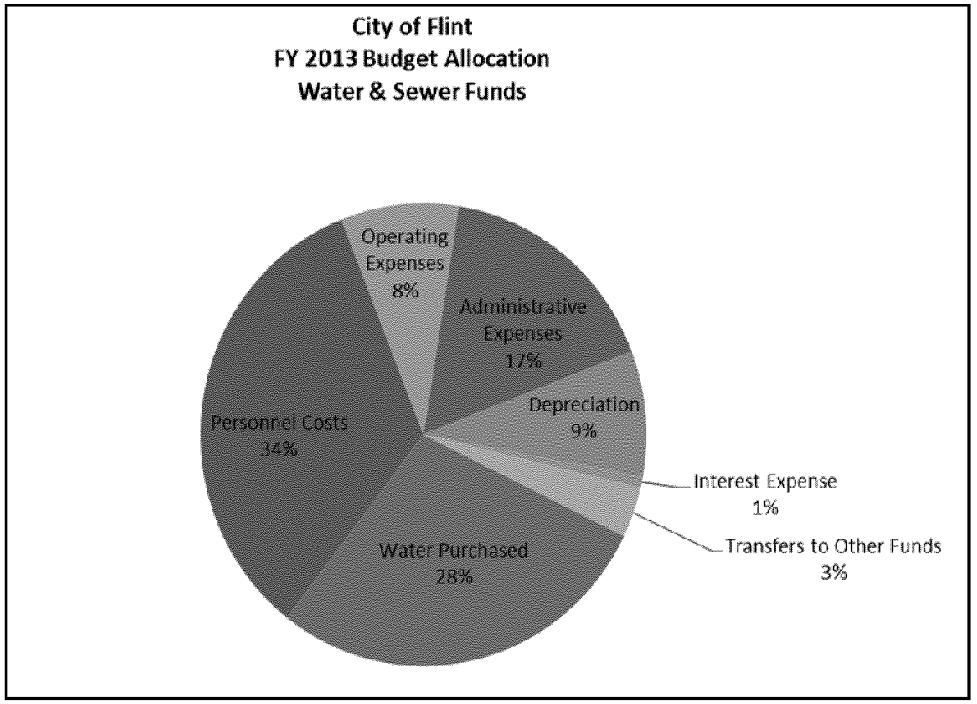
The "Fixed Costs" that must be covered to maintain the system and deliver quality water have increased over time.

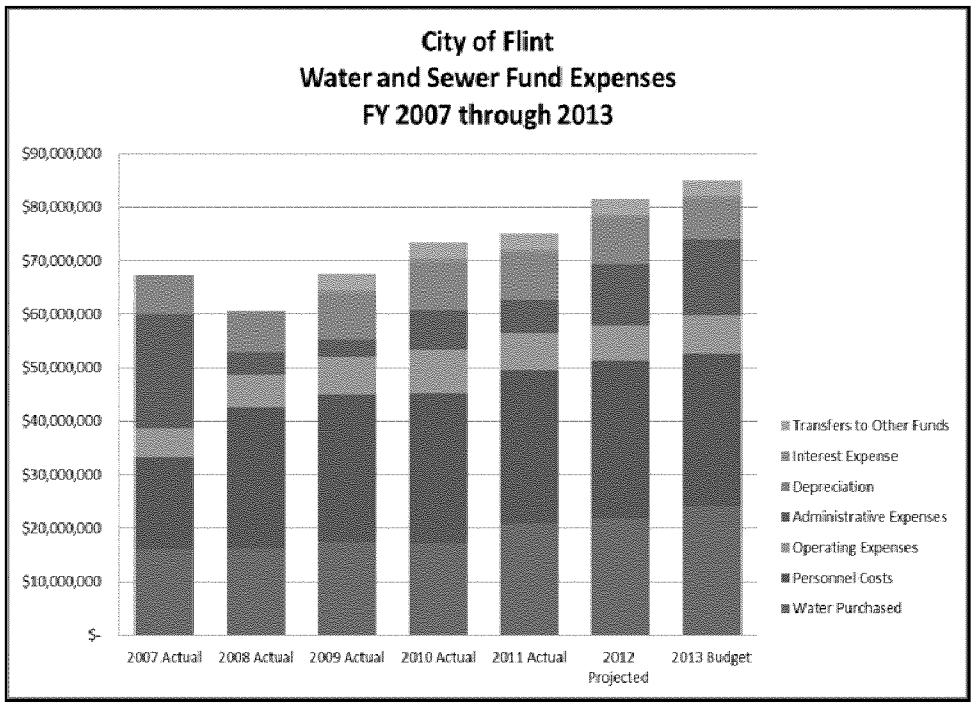
City Of Flint
Most Frequently Asked Questions about Water

- ❑Why are the water rates so high ?
- ❑How does my water bill work (Explanation of charges) ?
- ❑Why do others in the area pay less for the same amount of water ?
- ❑Where has all of the water and sewer fund money gone ?
- ❑What do I do if I think my bill is incorrect ?
- ❑What effect does leakage or theft have on my bill ?
- ❑How can I report water theft ?
- ❑Why don't we go back to using the Flint River like we once did ?

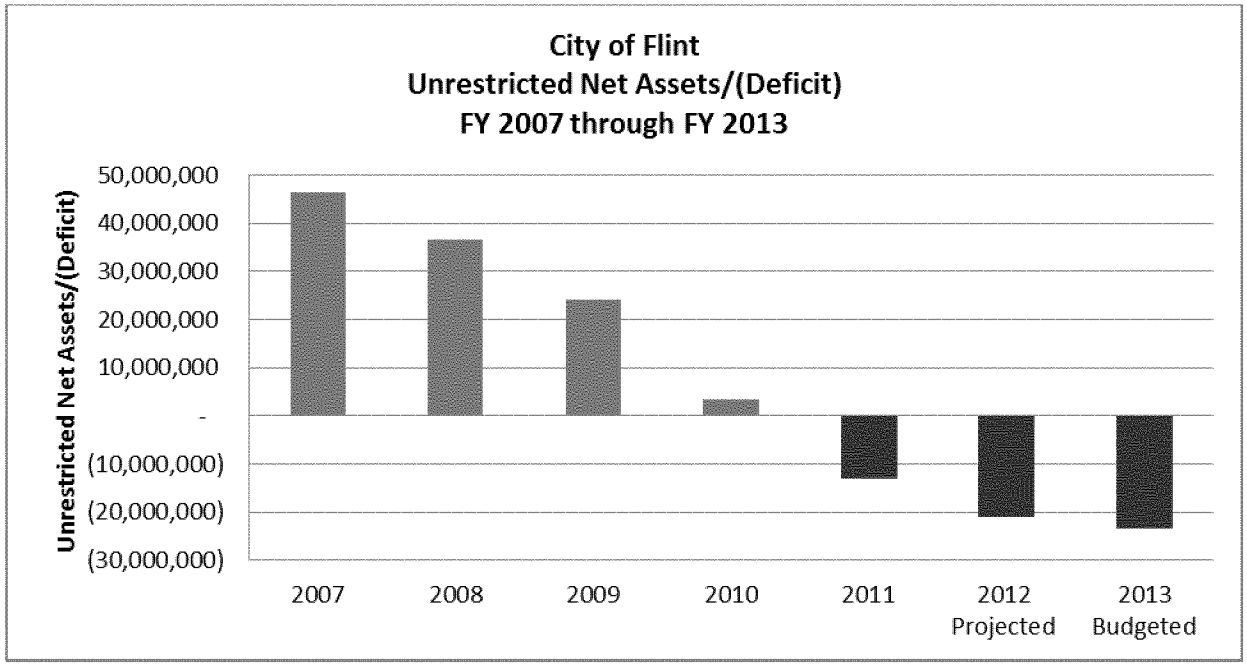
City of Flint

Budget Allocation and Fund Expenses

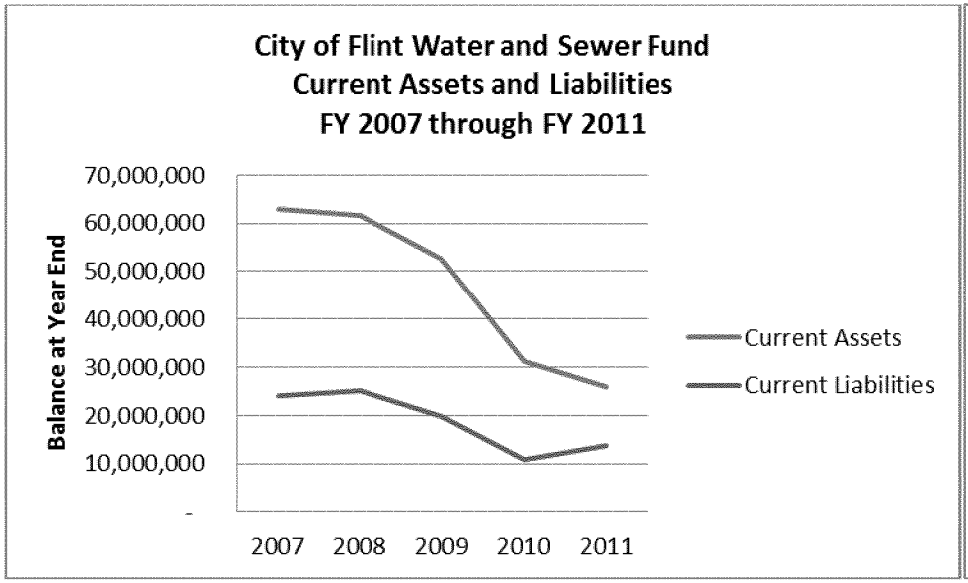


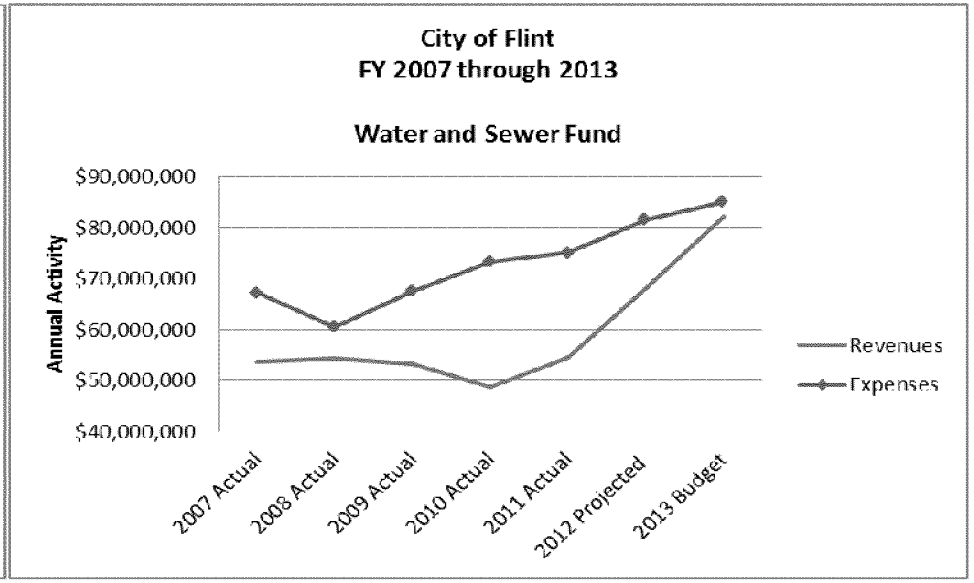


	Audited						
	2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Projected	2013 Budget
Operating Revenues	51,090,679	51,100,332	51,906,553	47,926,589	54,385,644	67,983,044	81,734,552
Other Revenues	2,627,939	3,274,450	1,442,383	764,886	68,645	126,670	455,867
Annual Revenues	53,718,618	54,374,782	53,348,936	48,691,475	54,454,289	68,109,714	82,190,419
Water Purchased	16,052,006	16,297,871	17,421,663	17,103,752	20,919,987	21,756,787	24,031,417
Personnel Costs	17,292,444	26,302,590	27,591,206	28,149,946	28,618,817	29,640,499	28,546,350
Operating Expenses	5,355,638	6,145,119	6,950,534	8,146,390	6,917,964	6,420,260	7,259,290
Administrative Expenses	21,300,900	4,229,382	3,403,231	7,327,630	6,221,627	11,465,462	14,140,047
Depreciation	7,217,142	7,132,870	8,364,022	8,854,889	8,689,809	8,615,000	7,500,000
Interest Expense	86,632	485,499	868,031	812,270	754,890	705,150	644,314
Transfers to Other Funds	-	-	2,990,000	2,990,000	2,990,000	2,990,000	2,990,000
Annual Expenses	67,304,762	60,593,331	67,588,687	73,384,877	75,113,094	81,593,158	85,111,418



	2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Projected	2013 Budget
Revenues	53,718,618	54,374,782	53,348,936	48,691,475	54,454,289	68,109,714	82,190,419
Expenses	67,304,762	60,593,331	67,588,687	73,384,877	75,113,094	81,593,158	85,111,418

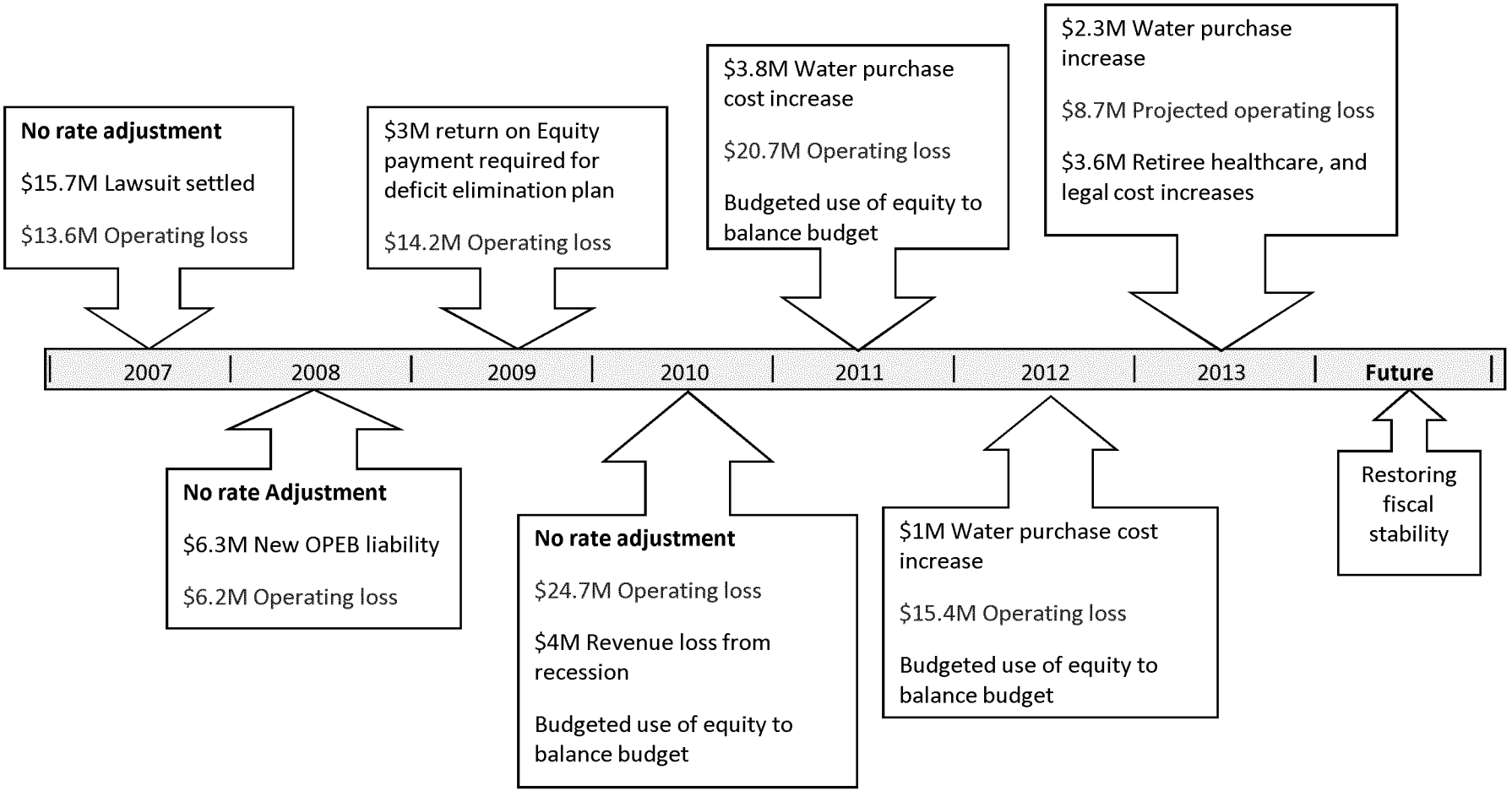




City of Flint

Recent Timeline of Water and Sewer Funds

FY 2007 through 2013



City of Flint- Water and Sewer System Additional Asset / Revenue Data

The average annual residential water sewer bill in FY2005 was less than $700 annually
The average annual residential water/ sewer bill in FY13 will be nearly $1,700

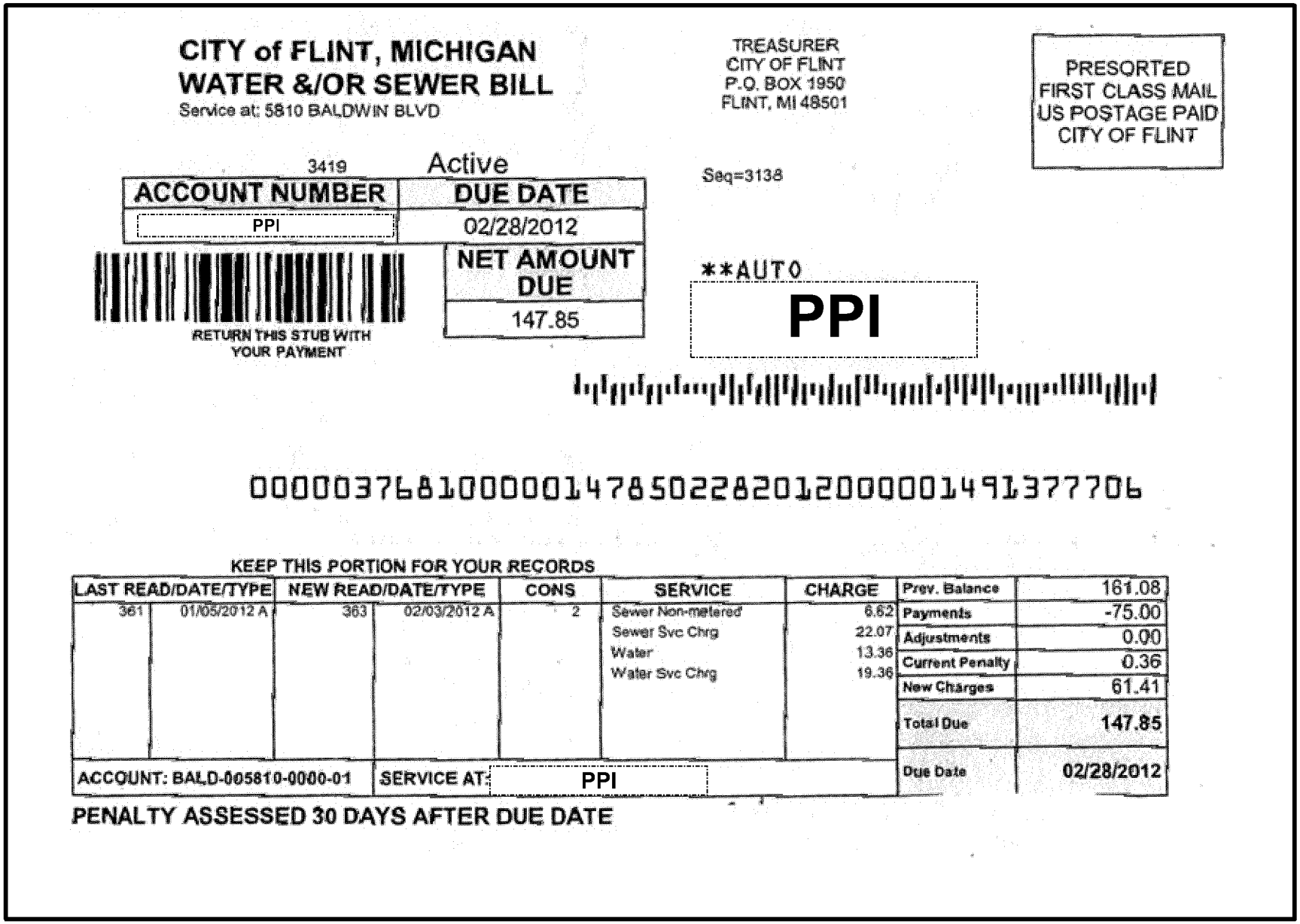
Expenses have exceeded revenues every year since 2006:

FISCAL YEAR	Rate Base	Revenues	Expenses	Revenues Minus Expenses	Unreserved System Equity	FACTORS IMPACTING SOLVENCY			COST IMPACT
2006	2005	$55,204,242	$50,933,792	**$4,270,450**	**$60,340,013**				
									(millions)
2007	2005	$53,856,857	$67,442,993	($13,586,136)	$46,399,452	No rate adjustment			??
						$15.7 million lawsuit settlement	15.7	0	$15.7
2008	2005	$54,374,781	$60,593,331	($6,218,550)	$36,482,488	No rate adjustment			??
						OPEB liabilities added	3.6	2.7	$6.3
2009	2009	$53,488,463	$67,728,218	($14,239,755)	$24,023,065	ROE payment added as part of City [	1.9	1.1	$3.0
2010	2009	$48,820,329	$73,513,725	($24,693,396)	$3,531,768	No rate adjustment			??
						Use of retained earnings budgeted	12.5	0.5	$13.0
						Revenue lost due to recession	2	2	$4.0
2011	2011	$54,527,079	$75,185,879	($20,658,800)	($12,866,607)	Use of retained earnings budgeted	7.1	3.5	$10.6
	2011					Water purchase cost increase	0	3.8	$3.8
2012		$68,279,187	$83,682,840	($15,403,653)	($20,884,122)	Use of retained earnings budgeted	5.1	0	$5.1
						Water purchase cost increase	0	0.8	$0.8
2013	2013	$82,220,420	$90,970,420	**($8,750,000)**	**($23,379,690)**	Water purchase cost increase	0	2.3	$2.3
						RHC/Legal/Admin Cost Allocation	2.1	1.5	$3.6
				($99,279,840)					$68.2

Calculation of Water and Sewer Rates for FY13 Budget

March, 2012:

	Expense Projection Based on FY12 Costs	Revenue Projection Based on FY12 Receipts	Difference Between Projected Revenues and Expenses	Rate Increase Necessary To Close Gap
Water	$49.9	$44.4	-$5.5	12.4%
Sewer	$31.0	$21.4	-$9.6	44.9%
TOTAL	$80.9	$65.8	-$15.1	22.9%



CITY of FLINT, MICHIGAN
WATER &/OR SEWER BILL
Service at: 5810 BALDWIN BLVD

TREASURER
CITY OF FLINT
P.O. BOX 1950
FLINT, MI 48501

PRESORTED
FIRST CLASS MAIL
US POSTAGE PAID
CITY OF FLINT

3419 Active

ACCOUNT NUMBER	DUE DATE
PPI	02/28/2012

NET AMOUNT DUE
147.85

RETURN THIS STUB WITH YOUR PAYMENT

Seq=3138

**AUTO

PPI

00000376810000014785022820120000149137706

KEEP THIS PORTION FOR YOUR RECORDS

LAST READ/DATE/TYPE		NEW READ/DATE/TYPE		CONS	SERVICE	CHARGE
361	01/05/2012 A	363	02/03/2012 A	2	Sewer Non-metered	6.62
					Sewer Svc Chrg	22.07
					Water	13.36
					Water Svc Chrg	19.36

Prev. Balance	161.08
Payments	-75.00
Adjustments	0.00
Current Penalty	0.36
New Charges	61.41
Total Due	147.85
Due Date	02/28/2012

ACCOUNT: BALD-005810-0000-01 SERVICE AT: PPI

PENALTY ASSESSED 30 DAYS AFTER DUE DATE

CITY OF FLINT
DEPARTMENT OF FINANCE

Customer Service Center

Dayne Walling
Mayor

Douglas Bingaman
Treasurer

CITY OF FLINT
WATER NON-PAYMENT TURN-OFF POLICY

1. Water services to any customer may be shut off if the account is not paid until after 30 days after the due date. (City ordinance 46-52 (h))

2. Non-payment turn-offs are done only Monday through Thursday. The Customer Service Center does not schedule non-payment turn-offs on Fridays, Saturdays, Sundays, or most recognized holidays.

3. Illegal usage, broken payment arrangements and NSF (non-sufficient funds) turn-offs are done at any time without additional notice.

4. Turn-off notices are mailed to delinquent customers fifteen (15) days before actual turn-off.

5. The water customer is responsible for maintenance of all plumbing in the premises including connection to City water mains or sewer lines.

6. If a customer disputes a water bill and is unable to resolve the issue with Customer Service personnel, the customer may request an administrative review. Further information on any water account may be obtained by calling (810) 766-7015 or visiting the Customer Service Center at 1st Floor, City Hall, 1101 S. Saginaw St.

Preliminary Options for Future City of Flint Water Sources

Consider a New Negotiated Contract with Detroit Water and Sewer Department

PRO'S	CON'S
No upfront capital costs	Lack of control over new / fixed changes
Possibility to negotiate a lower rate	Past practices
Ability to "Blend" water sources to further control costs	

Consider a Contract with the Karegnondi Water Authority

PRO'S	CON'S
Voting member of KWA board	Capital cost (debt service)
Ability to "Blend" water sources to further control costs	Uncertainty of final costs
Raw water is an asset for attracting new buisnesses	

Blended Use of the Flint River

PRO'S	CON'S
Helps control cost of water	

*** CURRENTLY NO DECISIONS HAVE BEEN MADE REGARDING THE FUTURE WATER SOURCE

Improvements for City of Flint Water System

Reduce Leakage

- **Finalize a Preventative Maintenance Plan**
  - (Planning started in January 2012, requires funding, … part of Operational Costs)
  - Will help identify repair area's

- **Reduce water theft**

- **Replace water meters**
  - We currently have an eighteen month plan to replace all meters with more efficient "*Smart Meters*"

- **Encourage routine household checks**
  - "Faulty" toilets are a significant reason for household water loss. and unexpected larger bills.

Other Leakage concerns

✓Transmission Loss

✓Fire Hydrants

✓Incorrect water bills

✓Non-Payment

City of Flint Water Fund

Proprietary Funds Revenues, Expenditures, and Changes in Net Assets
Fiscal Year Ended June 30

	2007	2008	2009	2010	2011	2012 Projected	2013 Budget
Current Assets	17,248,277	16,155,282	13,213,411	9,092,746	9,295,966		
Current Liabilities	7,053,131	7,039,015	6,796,178	8,287,409	11,736,286		
Capital Assets, net of accumulated depreciation	34,453,626	57,264,585	55,977,802	54,419,070	52,253,233		
Revenue Bonds, long-term portion	33,759,432	31,804,432	30,156,259	28,116,259	25,925,336		
Unrestricted Net Assets/(Deficit)	12,183,661	8,396,496	2,694,056	(5,795,973)	(12,443,265)	(13,237,665)	(12,733,233)

City of Flint Sewer Fund

Proprietary Funds Revenues, Expenditures, and Changes in Net Assets
Fiscal Year Ended June 30

	2007	2008	2009	2010	2011	2012 Projected	2013 Budget
Current Assets	45,805,754	45,515,711	39,299,954	22,199,959	16,496,427		
Current Liabilities	17,117,109	18,000,968	12,928,688	2,570,710	1,894,249		
Capital Assets, net of accumulated depreciation	76,913,051	73,794,673	74,719,675	70,200,627	65,736,675		
Revenue Bonds, long-term portion	-	-	-	-	-		
Unrestricted Net Assets/(Deficit)	34,215,792	28,085,991	21,329,011	9,327,738	(423,349)	(7,646,457)	(10,646,457)

Water and Sewer Combined

	2007	2008	2009	2010	2011	2012 Projected	2013 Budgeted
Current Assets	63,054,031	61,670,993	52,513,365	31,292,705	25,792,393		
Current Liabilities	24,170,240	25,039,983	19,724,866	10,858,119	13,630,535		

Response to Treasury regarding water rates, etc.

The cost of water and sewer in the City of Flint has become one of the most vexing issues facing the Emergency Financial Manager. When the Emergency Manager was appointed in December 2011 the water system had a $20 million deficit. In order to address this deficit the EM was forced to increase water and sewer rates by over a combined 120% in the past 18 months.

When the previous EFM left the City in 2004, the water system has a reserve of approximately $60 million. In the intervening years several things occurred: for three of five years (2007-2011) no rate increases were passed along to customers even though Detroit charged increases of over 10% per year; in the years when increases were passed along those amounts did not equal the actual cost of the system; the City chose to use the equity built up in the Water and Sewer funds until that was no longer available; a large lawsuit was settled; the City must pay for the $48 million MDEQ upgrades required at the Water Treatment Plant; and unbilled or unpaid water and sewer charges increased significantly.

In the past 18 months water and sewer rates have been increased to reflect the actual costs to operate the water and sewer system. Major leaks in the distribution system have been repaired. Unpaid water and sewer usage is now being addressed and the water affidavit process is part of this problem.

The City of Flint currently allows landlords to put the water and sewer billing in the name of the renter. This affidavit process holds the landlord harmless for any water costs. The deposit for the affidavit has been set at $100, which is the lowest in the County. The deposit fees in the County range from a low of $100 to a high of $500. The City is raising its rate to $350, which puts us about in the middle of the range. Depending on usage, this will cover 60 to 90 days' water charges and reduce the amount of uncollected billing. Keep in mind, any water not paid for is eventually charged to those who do pay through increased rates.

Because the deposit is so low in relation to the current charges, renters quickly owe more than the deposit, and find it easier to simply walk away from the rental and forfeit the deposit. This results in the City being on the hook for the unpaid bills. Currently there are 4,893 affidavits, and 4029 of them (82%) past due. This facctor alone totals to just under $3 million. In addition, when the renter walks away, the City has no way of knowing that the property is vacant. Many times the landlord rents the property again, without filing an affidavit, and the water continues to be charged to the former renter, again adding uncollected bills to the City. In the past the collection rate for past due accounts, when turned over to a collection agency, has been about 3% on average. Keep in mind that this is a deposit, not a fee, and can be refunded when the renter leaves the property. Also, the landlord can avoid the renter's deposit requirement by keeping the water and sewer billing in his name.

The City is also studying the potential to hold the landlord accountable for the water charges under certain conditions, such as failure to notify the City when a renter leaves and then renting the property again without filiing a new affidavit.

The City recognizes that the high cost of water is a factor which is causing low income residents to choose to leave the City and the increase in the deposit fee might accelerate that choice. However, many of the surrounding communities charge a higher deposit than does the City o Flint. Renters are leaving the City because they can get better housing for less money, live in safer neighborhoods with better schools, have their water charges decrease by about half, and have their insurance rates reduced by approximately 50%.

Water and sewer costs have resulted in about 8,000 current customers to be more than 60 days past due. Many are senior citizens who have lived in Flint their entire life, paid their taxes, etc. and now find themselves unable to pay their water bill. This concerns the City more than the issue of deposits. We have put in place for this year the ability for citizens to direct a part of their city tax refund to help people with their water bills, and we are reviewing other options as well as scheduled meetings with agencies involved in helping low income people with their bills.

We further recognize that we have staffing issues and water theft to address. The City is able to complete about 120 water shut-offs per week. At that rate we can not keep up with delinquent account shut-offs. The city also reconginzes that water theft through meter by-pass or unauthorized turn-on must be resolved.

Ultimately, the City must find a way to hold down future increases in the cost of water, to bring them more in line with the Genesee County water customers. To this end the City has recommended to Treasury, that the City leave the Detroit Water System and join KWA with Genesee County, Lapeer and Sanilac Counties and the City of Lapeer. We believe this is the most significant long term factor in stabilizing costs to the water customers in the City of Flint.

From: Dillon, Andy (Treasury)
Sent: Sunday, March 17, 2013 6:56 PM
Subject: Fwd: Flint Water Supply Alternatives
Attachments: TYJT Recommendaton DWSD vs Flint.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Governor and Dennis,

Attached is the recommendation from the engineers we hired to advise us on the KWA project for Genesee/Flint. As you will see, they are recommending that Flint stay with DWSD. This has ramifications that merit further discussion. Dennis and Brom, can you schedule a mtg for follow up?

Thanks,

Andy

Sent from my iPad

Begin forwarded message:

> **From:** David Guastella <DGuastel@tyjt.com>
> **Date:** March 17, 2013 1:07:03 PM EDT
> **To:** "Dillon, Andy (Treasury)" <DillonA2@michigan.gov>
> **Cc:** George Karmo <GKarmo@tyjt.com>, Awni Qaqish <aqaqish@tyjt.com>, "Hichez, Amy (Treasury)" <HichezA@michigan.gov>
> **Subject: Flint Water Supply Alternatives**
>
> Good afternoon Treasurer Dillon,
>
> As requested in our meeting on Friday, March 15th, I am attaching TYJT's recommendation regarding Flint's alternatives for water supply. Please do not hesitate to contact us should you have any questions or wish us to look into anything further regarding this issue.
>
> Thank you,
>
> Dave

STATE OF MICHIGAN CONTRACT NO. 271N3200089

CITY OF FLINT WATER SUPPLY ASSESSMENT

At the request of the Treasurer, Tucker, Young, Jackson, Tull, Inc. (TYJT) makes the following recommendation to the Department of Treasury concerning Flint's water supply alternatives. Based on the financial analysis performed of the various options presented by DWSD to continue treated water service to Flint compared to Flint being supplied by the new KWA untreated water system, TYJT believes that several of the options presented by DWSD are lower in cost currently and over the long run than the one offered by KWA. TYJT also believes that DWSD's most recent offer (subsequent to the submittal of our report) to build a smaller parallel water main from Imlay to Flint, funded by the entire DWSD base of customers, is the best solution offering the least cost alternative and the required redundancy by MDEQ.

Furthermore, since a majority of the KWA system has not been designed and none of the system has been constructed, there is an additional risk that the cost of the KWA system may actually be higher than estimated due to potential construction delays and unforeseen conditions. This risk to Flint could be substantial since the city is responsible for 30 percent of the KWA design and construction costs while still having to purchase water from DWSD during the construction period.

Finally, there are other issues that were identified in our report that may result in risks to Flint if it were to join KWA that should be considered by the Treasury in determining how Flint's potable water should be supplied. These issues are related to redundancy and reliability, other items affecting cost, and Flint's desire to control its own destiny related to its water supply. These are described further below.

- DWSD's supply to Flint is via a 72-inch water main from Imlay City. This main also supplies Imlay City, Mayfield and the Greater Lapeer County Utilities Authority (GLCUA). The volume of water contained within the 72-inch main is approximately 30 million gallons. If Genesee and Flint move to KWA then the three remaining communities' consumption would most likely not be large enough to maintain fresh water in DWSD's pipeline (due to loss of chlorine residual). DWSD may consider shutting down the 72-inch line completely due to the water quality concerns, which would then create an additional burden for Imlay, Mayfield and GLCUA to finance treated water supplies.
- The KWA supply option is counter to the Treasury's Competitive Grant Assistance Program (Formerly EVIP Grant). This program has been put in place to allow for communities to consolidate their services and save money. Two existing customers of DWSD (Flint and Genesee County) along with the potential of others customers (GLCUA, Mayfield, Imlay City) separating from another water system is in contradiction to the program.
- There is a concern over the ability of smaller systems (KWA) over larger systems (DWSD) to pay for future unfunded mandates and regulations. Obviously, identifying regulation requirements over 30 years is hard to determine. However, it is widely accepted that a large system has greater ability to respond to unfunded mandates because the cost can be distributed over a large customer base.
- Although Flint will be responsible for 30 percent of the construction cost, they will only have a minority vote on the KWA board. Furthermore, there are other communities (Lapeer County, the City of Lapeer, and Sanilac County) that sit on the board and vote. However, they are not purchasing water nor contributing to the construction costs. Their position on the KWA Board will not provide them an ability to "control their own destiny," as they have stated to the Treasury.

From: Dillon, Andy (Treasury)
Sent: Tuesday, March 26, 2013 8:04 AM
Subject: Fwd: Flint Water

Sent from my iPad

Begin forwarded message:

> **From:** "Saxton, Thomas (Treasury)" <SaxtonT@michigan.gov>
> **Date:** March 26, 2013 7:57:47 AM EDT
> **To:** "Stibitz, Brom (Treasury)" <StibitzB@michigan.gov>, "Dillon, Andy (Treasury)" <DillonA2@michigan.gov>
> **Subject: Flint Water**
>
> Fyi... in case you missed it I heard about this on the news this a.m.
>
> Flint City Council approves resolution to buy water from Karegnondi, state approval still needed
> By Dominic Adams | dadams5@mlive.com
> on March 25, 2013 at 10:45 PM, updated March 26, 2013 at 1:28 AM
> FLINT, MI – Flint is one step closer to getting its water from Lake Huron as part of the Karegnondi Water Authority.
> The vote, approved 7-1 at the Flint City Council meeting Monday, March 25, may have set in motion the end to Flint paying to get its water from Detroit.
> Under the proposal, Flint would get 16 million gallons per day of raw water from Lake Huron, pipe it to Flint for treatment and then sell it to customers throughout the city. Another 2 million gallons per day would come from the Flint River and will be treated in Flint.
> Mayor Dayne Walling said the Department of Environmental Quality must approve Flint's getting 2 million gallons per day from the Flint River.
> Tuesday's meeting followed weeks of discussions and special meetings surrounding the resolution.
> "We got there," Councilman Joshua Freeman said. "That's the important thing."
> There were more than 50 people at Monday's meeting.
> "Going with Karegnondi is the best decision. We have no opinion on the economics of the decision," said Rebecca Fedewa, Flint River Watershed Coalition executive director. "If we start drawing water out of the Flint River, we are at risk of having to start releasing water from our reservoirs."
> Genesee County Drain Commissioner Jeff Wright said the decision must still be approved by a county water and waste advisory board. The KWA board will then be reconvened for final approval.
> Wright said construction could start in May.
> State treasury officials still must approve the city council's move because Flint has an emergency financial manager. All expenditures over $50,000 must be approved.
> Genesee County Drain Commissioner Jeff Wright has said that Flint would pay roughly $6.4 million annually for water service if it joined the pipeline – a nearly $4 million savings on what it pays Detroit for water.
> Walling previously said the city would save $19 million over eight years by getting water from the KWA.

"It's a historic night in the City of Flint," Walling said. "The savings will be less with the capacity level approved by city council because there will be increased treatment cost for the river water."

He said the DEQ told the city it needed to get 18 million gallons per day or there would have to be additional work done at Flint's water plant.

Flint's water plant and the Flint River is currently the backup for Flint and Genesee County, however, the plant only operates four times per year.

Councilman Bryant Nolden was the lone dissenting vote.

"It was a protest vote," Nolden said. "I knew they had enough votes. I just feel like the Flint River is our best option."

Karengnondi is the regional water authority that includes Genesee, Lapeer and Sanilac counties and the cities of Flint and Lapeer.

Flint is the second municipality, behind Genesee County, to officially decide to purchase raw water through the KWA. Lapeer city officials said they intend to purchase water, but an agreement has been finalized.

Dominic Adams is a reporter for MLive-Flint Journal. Contact him at dadams5@mlive.com or 810-241-8803. Follow him on Twitter, Facebook or Google+.

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From: Dillon, Andy (Treasury)
Sent: Thursday, March 28, 2013 6:18 PM
Subject: KWA

Follow Up Flag: Follow up
Flag Status: Flagged

Governor, based upon today's presentations to the DEQ by the City of Flint, KWA and the engineering firm (Tucker Young) Treasury hired to vet the options as to whether Flint should stay with DWSD or join KWA, I am recommending we support the City of Flint's decision to join KWA. The City's EM, Mayor and City Council all support this decision. Dan Wyant likewise concurs and will confirm via email.

We have a briefing call tomorrow morning with Dennis and John to provide more background as to why we reached this conclusion. Flint's EM wants to sign the resolution asap as the project is moving forward with or without them and their participation affects the design and the construction season is upon them.

I assume DWSD will make a last ditch effort to save the customer but I will not advise them of my recommendation until we brief Dennis and John.

Regards,

Andy

Sent from my iPad

From: Muchmore, Dennis (GOV)
Sent: Tuesday, November 17, 2015 1:55 PM
To: Wurfel, Sara (GOV)
Attachments: Re: KWA; FW: KWA; Re: Flint; Flint Water Distribution Comm Plan

From: Muchmore, Dennis (GOV)
Sent: Friday, March 29, 2013 9:40 AM
Subject: Re: KWA

Wow, what happened? I thought we were going the other way.

On Mar 28, 2013, at 6:17 PM, "Dillon, Andy (Treasury)" <DillonA2@michigan.gov> wrote:

> Governor, based upon today's presentations to the DEQ by the City of Flint, KWA and the engineering firm (Tucker Young) Treasury hired to vet the options as to whether Flint should stay with DWSD or join KWA, I am recommending we support the City of Flint's decision to join KWA. The City's EM, Mayor and City Council all support this decision. Dan Wyant likewise concurs and will confirm via email.
>
> We have a briefing call tomorrow morning with Dennis and John to provide more background as to why we reached this conclusion. Flint's EM wants to sign the resolution asap as the project is moving forward with or without them and their participation affects the design and the construction season is upon them.
>
> I assume DWSD will make a last ditch effort to save the customer but I will not advise them of my recommendation until we brief Dennis and John.
>
> Regards,
>
> Andy
>
>
> Sent from my iPad

From: Muchmore, Dennis (GOV)
Sent: Friday, March 29, 2013 1:31 PM
Subject: FW: KWA

Both Dan and Andy believe that the discussions held in the past with DWSD and Flint have been contentious and not fruitful. What we are going to do is tell Flint that if they believe it is in Flint's interest they should sign and submit to Andy for his approval. Brom will tell them that. At the same time we will inform DWSD that this is happening and if they want to make a last attempt they should do so during the period of time that Andy is deliberating on his counter signature. Dan does not believe that DWSD has been straight and doesn't think they will offer anything and Andy concurs. Under any circumstances Flint will have to deal with DWSD on the present delivery system and that may create some negotiations but it's doubtful they will be significant.

We will encourage DWSD to make an attempt. We did call them together as recently as November to negotiate and those discussions were not successful. Andy and Dan will make one last effort.

-----Original Message-----
From: Dillon, Andy (Treasury)
Sent: Thursday, March 28, 2013 6:18 PM
To: Snyder, Rick (GOV); Muchmore, Dennis (GOV); Roberts, John (GOV); Wyant, Dan (DEQ)
Cc: Stibitz, Brom (Treasury); Fraser, Roger (Treasury); Saxton, Thomas (Treasury)
Subject: KWA

Governor, based upon today's presentations to the DEQ by the City of Flint, KWA and the engineering firm (Tucker Young) Treasury hired to vet the options as to whether Flint should stay with DWSD or join KWA, I am recommending we support the City of Flint's decision to join KWA. The City's EM, Mayor and City Council all support this decision. Dan Wyant likewise concurs and will confirm via email.

We have a briefing call tomorrow morning with Dennis and John to provide more background as to why we reached this conclusion. Flint's EM wants to sign the resolution asap as the project is moving forward with or without them and their participation affects the design and the construction season is upon them.

I assume DWSD will make a last ditch effort to save the customer but I will not advise them of my recommendation until we brief Dennis and John.

Regards,

Andy

Sent from my iPad

From: Dillon, Andy (Treasury)
Sent: Friday, March 29, 2013 6:45 PM
Subject: Re: Flint

We grilled them on that quite a bit. There is a maximum guaranteed price on key construction items and the path allegedly presents limited risk- rural, thru areas w no gas or water lines, existing easements etc. I was the skeptic but view of my staff and deq was universal in favor of kwa. I was won over as well. I can't make a legitimate case that financially this is worse for Flint unless today's threat from Shank (DWSD will bill Flint for past capex) is real. We are sorting thru that.

I see lots of political downside as well. Community is invested in this.

Sent from my iPhone

On Mar 29, 2013, at 3:10 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

> How does Kurtz propose to protect them from cost overruns? Did they get a low ball price and how do we keep it from ballooning? Finally, what does that do to the sale value of DWSD?
>
> Sent from my iPhone

From: Buhs, Caleb (GOV)
Sent: Thursday, April 11, 2013 7:13 AM
Subject: Flint Water Distribution Comm Plan
Attachments: Flint Water Distribution Comm Plan.docx

Attached is the comm plan for the announcement of the Treasurer's determination on the Flint water plan today. Terry will be handling at Treasury, contacting media and fielding follow-up questions. Given that this was the Treasurer's determination to make, we will send all inquiries to Terry. If we receive any questions specific to the Governor I will handle in the afternoon when I get back from Grand Rapids.

Caleb

Flint Water Distribution Comm Plan and Talking Points

4/11/13

Flint Emergency Manager Ed Kurtz submitted a resolution to Treasurer Dillon on Friday, March 29th, seeking approval for Flint to join the Karegnondi Water Authority (KWA) to secure potable water for the City of Flint. The move to join KWA would remove Flint as a customer of Detroit Water and Sewer Department (DWSD). Treasurer Dillon was required to approve the resolution by EM Ed Kurtz per PA 436, because it was an expenditure over $50,000

Communication Plan

Thursday, April 11, 2013

- **9:00 a.m.** Send official notification of approval to EM Ed Kurtz (Brom Stibitz/Amy Hichez)
- **10:00 a.m.** Call Flint Mayor and Council President (Andy Dillon)
- **10:30 a.m.** Call DWSD to notify of decision (Andy Dillon/Brom Stibitz)
- **10:30 a.m.** Contact Flint media (Terry Stanton/Caleb Buhs)
    - Ron Fonger, MLive; WNEM; WJRT; WEYI

Topline Messages

- This is a decision made by the City of Flint and is a local decision that affects their local water supply.
- After thorough review and analysis, Treasurer Dillon approved the resolution for Flint to join the KWA.
- Flint Emergency Manager Ed Kurtz has worked closely the city's elected officials throughout the decision-making process and all agree that this is best for the citizens and businesses in Flint.
- This is a good example of an EM and city officials collaborating to determine the best course of action for the city's future.
- The Departments of Treasury and Environmental Quality have approved the financial and environmental soundness of KWA's plan.
- Flint accounts for only 2% of DWSD's capacity.
- With continued efficiency improvements and ongoing administrative restructuring, DWSD will be suited to handle the loss of customers.

Background

- This move will allow Flint to control future water rates for Flint residents.
- This will save Flint at least $100 million over the next 25 years, and possibly as much as $300 million.

DRAFT

- Genesee County planned to build pipeline whether Flint was part of the project or not. The removal of the county from DWSD accounts for 4% of their capacity.
- Collaboration between the City of Flint and Genesee County could signify the start of a better relationship and could lead to future collaborative endeavors.

DRAFT

From: Stanton, Terry A. (Treasury)
Sent: Thursday, November 19, 2015 2:38 PM
To: Wurfel, Sara (GOV); Murray, David (GOV); Sampson, Jeremy (TREASURY)
Cc: Heaton, Anna (GOV); Kennedy, Jordan (GOV)
Subject: FW: Flint water
Attachments: 271Q3209 Flint Water Supply Assessment Final Report 2-6-13.pdf

Importance: High

All—

Please see below from Egan. This is essentially the same "?" Nancy Kaffer asked of Jeremy a couple weeks back. Intend to say something along the lines of the following...please advise.

The Tucker-Young report offered an initial perspective on the situation, but as additional information was received and considered by the city, city officials determined that KWA offered the best long-term solution for Flint. As has been noted previously, all involved, the mayor and city council, believed the move to KWA was appropriate and supported the move.

As we have discussed previously, consideration of the development of a Flint-area/Genesee County water system had been on-going since the early 2000's and the City of Flint had been in discussions about joining a new system for much of that time.

From: Egan, Paul [mailto:pegan@freepress.com]
Sent: Thursday, November 19, 2015 1:09 PM
To: Stanton, Terry A. (Treasury) <StantonT@michigan.gov>
Subject: Flint water

Terry attached is the City of Flint Water Supply Assessment, a February 2013 study commissioned by the state treasurer and carried out by Tucker, Young, Jackson, Tull Inc.
Why did the state and city opt to split with DWSD and go with KWA when this study found it would be more costly to do so?

(From p. 17) "Based on the analysis, it is prudent to assume the KWA water supply option costs would be somewhere between the KWA-1 and KWA-2 options. Therefore, the analysis indicates that the two DWSD options of supplying 8 MGD on a maximum day and up to 8 MGD on average are the least cost options for Flint. These options allow Flint to maximize the use of existing assets; the City of Flint's (the Flint WTP) and DWSD's (the existing 72-inch main)."

Thanks, Paul Egan
Detroit Free Press
517-372-8660

STATE OF MICHIGAN CONTRACT NO. 271N3200089

CITY OF FLINT WATER SUPPLY ASSESSMENT

February 2013

For Submittal to:

State of Michigan, Department of Treasury

Submitted by:

TUCKER, YOUNG, JACKSON, TULL INC.

CONSULTING ENGINEERS-PLANNERS
615 Griswold Suite 600
Detroit, Michigan 48226
(313)963-0612 FAX (313)963-2156

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1. INTRODUCTION

Tucker, Young, Jackson, Tull, Inc. (TYJT), at the request of the State Treasurer performed an analysis of the water supply options being considered by the City of Flint. The City of Flint is presently supplied potable water from the Detroit Water and Sewerage Department (DWSD). This supply is from a single 72-inch water main that terminates at a master meter located at Potter and Baxter. Additionally, downstream of the DWSD master meter, Flint supplies its customer Genesee County. The City of Flint also operates a water treatment plant that uses the Flint River as its source of supply to provide back up and redundancy to the DWSD supply as required by MDEQ

The Karegnondi Water Authority (KWA) is planning on constructing a raw water supply system that could provide Lake Huron water to the Flint Water Treatment Plant. Flint's existing plant would be upgraded to treat the new raw water source.

The State Treasurer has appointed an emergency financial manager for the City of Flint. As such the Treasurer has requested TYJT to provide an analysis of the water supply options to assist the Treasurer in determining any potential risk and the best course going forward for supplying potable water to the City of Flint.

Report Organization

The following sections of this report are described below:

Section 2 – The basis of the analysis is described in this section. The options include the KWA option and several options offered by DWSD.

Section 3 – A significant amount of information and data was collected including memorandums, reports, drawings, financial reports, and other documents. This section summarizes the information used in the analysis.

Section 4 – This section describes the evaluation of the cost of supply for the Flint options. The costs are comprised of the initial cost of operations plus the annual rate of escalation/inflation.

Section 5 – The evaluation process used to analyze the construction costs associated with the KWA supply system is described in this section. Additionally, the cost of financing the capital requirements is described.

Section 6 – This section presents the financial review of the options considered to supply potable water to Flint. A summary of these options is also provided.

Section 7 – In addition to the financial analysis other considerations were identified that should be considered in understanding the risks and determining the best option to supply Flint. They include items related to cost, redundancy and reliability, and Flint's ability to control their future cost of water supply.

2. FLINT WATER SUPPLY OPTIONS

Two water purveyor options were evaluated; the KWA water supply system and continued supply from DWSD. Both suppliers would provide water from Lake Huron as the source. The KWA system is a raw water supply, which means that the water would have to be treated by Flint before distributing the potable water to its customers. The DWSD supply is potable or "finished" water and would not need additional treatment.

Additionally, an option for the Flint WTP to supply the City of Flint without being supplied from either DWSD or KWA was initially considered. The preliminary investigation evaluated the cost associated with the required improvements to the plant and to the Flint River dam system. Although it appeared that this was a viable option, Flint in a meeting on December 20, 2012 with the Treasury, stated that the City did not want to pursue the option and it is no longer being considered.

Karegnondi Water Authority (KWA) Lake Huron Water Supply

The KWA water supply system schematic is shown in Figure 2-1. The system is comprised of an intake in Lake Huron that supplies water to the Lake Huron Pump Station (LHPS). The LHPS lifts the water and pumps it through an approximately 22 mile long 60-inch pipeline. The pipeline terminates at a 5 MG reservoir and is then pumped from the Intermediate Pump Station (IPS) through approximately 26 miles of 60-inch and 18 miles of 30-inch pipeline to the existing Flint WTP. Downstream of the IPS, approximately half way to the Flint WTP, the 60-inch line would also supply a new Genesee County WTP.

The raw water transmission system has a 60 MGD capacity and is sized to deliver a maximum of 18 MGD to the Flint WTP with an average day supply of 12 MGD. Improvements at the Flint WTP would also be required to treat the lake water as the plant is currently designed to treat the Flint River water.

The term of the KWA contract for Flint is 40 years.

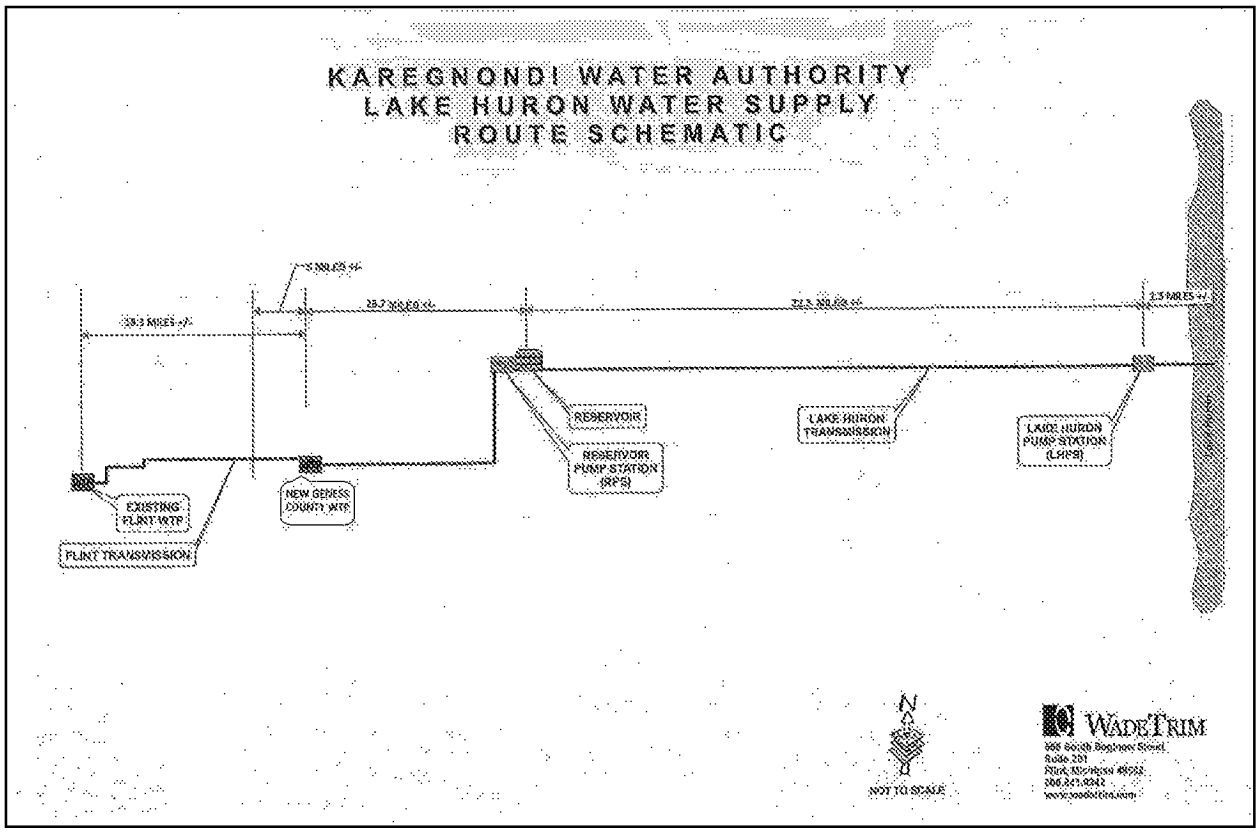

Figure 2-1: KWA Raw Water System

DWSD Water System

The DWSD system schematic is shown in Figure 2-2. Flint is currently supplied by DWSD at Master Meter FL-1, located at Potter and Baxter. Flint typically gets its water from the Lake Huron WTP, located in Fort Gratiot, Michigan; near the Lake Huron shoreline. Water is treated and pumped at the Lake Huron WTP and supplied through a 120-inch pipeline to an intermediate pump station called the Imlay Pump Station. The Imlay Pump Station has 20 MG of reservoir capacity. Depending on the time of year and the DWSD system demand, water is either bypassed directly to Flint or it is re-pumped at Imlay. It should be noted that the DWSD supply to Flint is part of a very large water system and during emergencies or outages water can be supplied from the south up to Flint in lieu of the Lake Huron facility.

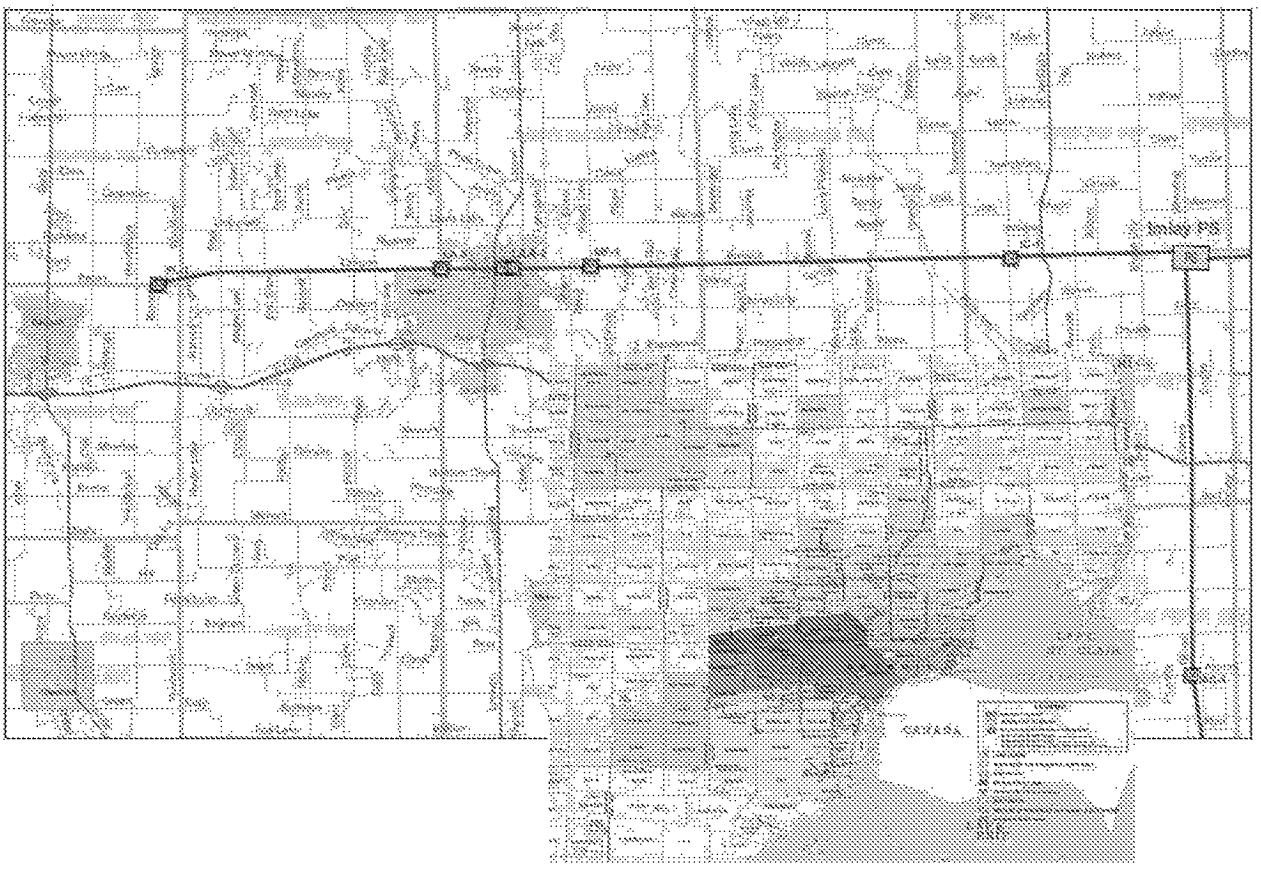

Figure 2-2: DWSD Water System

The pipeline from Imlay to FL-1 is a 72-inch pipeline. It has been estimated that the 72-inch line serving Flint has a capacity in excess of 90 MGD.

DWSD has presented several contractual options to Flint and all of them are based on Flint signing a new 30 year contract. The options shown in Table 2-1 are based on two different supply points; one at the current master meter location FL-1 at Potter and Baxter (P&B) and the other at the location of the Imlay Pump Station. The reason for the varying options is to provide a lower water rate at the Imlay Station, since the DWSD rate formula is based on distance and elevation factors related to the supply location.

The rates are also dependent on the maximum amount of water DWSD supplies. As example, if DWSD supplies a maximum day demand of 18 MGD that would equal the entire amount of water required by Flint.

For the options less than the maximum of 18 MGD means that the Flint WTP would supplement the difference by supplying water treated from the Flint River. These options are known as "blending" and would allow for Flint to blend two sources of water to supply its customers; the Flint River using the Flint WTP and Lake Huron from DWSD system.

Description	Average Day Demand
18 MGD Maximum Day Customer – FL-1	12 MGD
12 MGD Maximum Day Customer – FL-1	8 MGD
8 MGD Maximum Day Customer – FL-1	8 MGD
12 MGD Maximum Day Customer - Imlay	12 MGD
8 MGD Maximum Day Customer - Imlay	12 MGD

Table 2-1: DWSD Supply Options

3. DATA COLLECTION

During the course of the investigation several documents were used to perform the analysis. The names of the documents are listed below for reference.

KWA and Flint

- Preliminary Engineering Report, Lake Huron Water Supply Karegnondi Water Authority, September 2009;
- Analysis of the Flint River as a Permanent Water Supply for the City of Flint, July 2011;
- Cost Comparison, KWA vs. DWSD, Letter to Mr. Kurtz, October 31, 2012;
- Lake Huron Supply Study, KWA, Appendix 20, October 2012 Preliminary Report Update, Final Report (DRAFT), October 4, 2012;
- Articles of Incorporation of Karegnondi Water Authority, endorsed in 2010;
- Karegnondi Water Authority Bylaws, October 26, 2010;
- KWA Raw Water Supply Contract;
- Flint WTP Statement of Revenues and Expenditures 09' – 12';
- GCDC Division of Water and Waste Services Financial Statements 03' – 11'; and
- Assorted emails with further clarification of questions and documentation.

DWSD

- Historical Rates and Charges to Flint 04' – 13';
- Historical Rates and Charges to Flint with Hypothetical Model Contract 10' – 13';
- 2013 Rates and Charges for the following options:
  - 18 MGD Maximum Day Customer at FL-1;
  - 12 MGD Maximum Day Customer at FL-1 (Flint blending*);
  - 8 MGD Maximum Day Customer at FL-1 (Flint blending*);
  - 12 MGD Maximum Day Customer at Imlay (Flint blending*);
  - 8 MGD Maximum Day Customer at Imlay (Flint blending*); and
- Assorted emails with further clarification of questions and documentation.

* Flint blending based on DWSD supplying two-thirds and Flint one-third of 12 MGD average day demand.

Two meetings were also held; one with DWSD and one with Flint and Genesee County representing KWA. The meetings were held on November 19, 2012 and November 20, 2012, respectively. Minutes from these meetings are included in Appendix A.

4. COST OF SERVICE

Information provided by DWSD, Flint, and representatives of the KWA were used in the cost of service evaluation. To evaluate the annual escalation/inflation rate over the planning period, the rate adjustment for DWSD was estimated based on the recent rate adjustment history. For the KWA system both the estimated cost of operations when the system begins supplying water and the annual rate adjustment or inflation was evaluated. The existing cost of operations and escalation for the Flint WTP was based on actual costs provided and then adjusted depending on the scenario considered. This section describes the evaluation process and the rates used in the analysis.

DWSD Water Supply

The City of Flint has been a customer of DWSD since 1967. The Flint WTP has been maintained as a backup to the DWSD system. As indicated previously, several options were provided by DWSD depending on the type of service Flint was to select. The unit cost of water for each of these options is shown in Table 4-1. These rates are based on DWSD's FY13, which are current until July 2013.

Description	Average Day Demand (MGD)	Unit Rate ($/MG)
18 MGD Maximum Day Customer – FL-1	12	16.37
12 MGD Maximum Day Customer – FL-1	8	16.31
8 MGD Maximum Day Customer – FL-1	8	12.68
12 MGD Maximum Day Customer - Imlay	12	14.38
8 MGD Maximum Day Customer - Imlay	12	11.11

Table 4-1: Cost of DWSD Supply Options

To determine annual escalation rate, DWSD's last 10 years of history was used along with other large urban water systems in Michigan. The water systems used for benchmarking comparison were: Lansing, Grand Rapids, and Saginaw.

Table 4-2 identifies the annual and average rate of increase to Flint based on supplying water either to the current FL-1 at Potter and Baxter or Imlay. Note the last three years of the rates (FY 2011 through FY 2013) assumes that Flint's cost would be based on the new 30 year contract; FY 2011 being the first year that the new contract was available.

Fiscal Year	Average Unit Cost ($/MCF)	Annual Change (%)
2004	11.06	
2005	10.24	-7.4
2006	10.56	3.1
2007	11.09	5.0
2008	11.35	2.3
2009	13.07	15.2
2010	11.73	-10.3
2011	13.89	18.4
2012	15.08	8.6
2013	16.24	7.7
Average		2.4%

From FL-1

Fiscal Year	Average Unit Cost ($/MCF)	Annual Change (%)
2004	11.06	
2005	10.24	-7.4
2006	10.56	3.1
2007	11.09	5.0
2008	11.35	2.3
2009	13.07	15.2
2010	11.16	-14.6
2011	12.23	9.6
2012	13.28	8.6
2013	14.32	7.8
Average		2.9%

From Imlay

Table 4-2: Recent DWSD Water Rates

Audited financial reports were used to determine the rate of inflation associated with other three large municipal systems. The results are shown in Table 4-3.

Water Systems	Years Evaluated	Average Rate (%)
Lansing	05'-12'	4.6
Grand Rapids	04'-11'	1.6
Saginaw	04'-11'	7.0

Table 4-3: O&M Inflation Rates of Other Large Water Systems

Based on the information analyzed from DWSD and the other communities, it was determined that a fair annual rate of inflation for operations and maintenance cost for the analysis should be 4.4%. The 4.4% has historical significance from Flint's current water supplier and falls within the range of the other communities.

KWA Water Supply

The initial projected O&M cost for the KWA supply would be comprised of KWA's O&M costs as well as Flint's O&M costs. Because there was limited information provided, the initial estimated rate of $1.50/MCF was used. This rate is based on information from the cost comparison analysis attached to the letter to Mr. Kurtz, dated October 31, 2012.

The KWA cost evaluation used an annual O&M inflation rate of 5%. To validate this rate a similar analysis to DWSD's operations and maintenance annual rate of inflation was used. First, in discussions with Flint and the Genesee County Drain Commission (GCDC), they believed that the annual rate of inflation for the new KWA system would be similar to the GCDC Water & Waste Services (WWS). Additionally, two large transmission systems were used to benchmark the inflation rates: the Southeastern Oakland County Water Authority (SOCWA) and the Ypsilanti Utility Community Authority (YUCA). Although both of these systems transmit finished water opposed to raw water, they were considered similar enough for comparison as they are comprised of only large water mains, pumping facilities and storage.

Once again audited financial statements were used to calculate the inflation rates. A summary of the findings are shown in Table 4-4. Based on the fact that the information analyzed showed a large difference between the two systems, it was determined that the KWA assumption of 5% was a good rate of inflation to use in the financial analysis. This rate is almost equally between the GCDC rate and the other two transmission systems.

Systems	Years Evaluated	Average Rate (%)
GCDC WWS	03' – 11'	10.5
SOCWA	04'-12'	--
YUCA	04'-12'	0.7

Table 4-4: O&M Inflation Rates of Other Comparable Systems to KWA

Flint WTP

The Flint WTP currently serves as a backup supply to the DWSD service to Flint. To maintain backup operations, the City of Flint operates the plant approximately 20 days each year. Flint indicated that the average production rate when they operate is 11 MGD.

For the blending options and the KWA supply considered, Flint would be required to operate its plant all year around. Therefore, their operating and maintenance costs were evaluated and adjusted to determine an annual cost associated with year-round operations.

The Flint WTP provided three years of operating costs for the assessment. Additionally, reports listed in Section 3 were also used as reference to determine both operating costs for the plant processing Flint River water (blending options) and Lake Huron raw water (KWA option).

Major cost centers were analyzed to estimate annual operation and maintenance. They included: labor, utilities, chemicals and residual management. In general, as recommended by the Flint plant staff, labor and overhead were increased from the current costs by two-thirds. Additionally, variable costs for power, chemicals and residual cost were increased to estimate full time treatment at the Flint WTP. Data from the KWA Preliminary Report and annual operating data for the Flint WTP (provided separately) were analyzed to make these forecasts.

The annual operating and maintenance costs developed for Flint WTP used are shown in Table 4-5.

Source of Supply	Average Daily Production (MGD)	Estimated Annual O&M Cost
Flint River (Blending with DWSD)	4	$5,895,097
Lake Huron (Supplied by KWA)	12	$7,913,118

Table 4-5: FY 13 O&M Costs for Year-round Operations

It was determined that a fair annual rate of inflation for operations and maintenance cost for the Flint WTP plant should be 4.51%. The 4.51% is an average of Lansing, Grand Rapids and Saginaw facilities.

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5. CAPITAL REQUIREMENTS

Large capital investments would be required by Flint and GCDC to construct the KWA supply system. Furthermore, some of the options presented by DWSD (supply point from Imlay) would require the purchase by Flint of DWSD's 72-inch water main. Performing the financial analysis; therefore, required an analysis of the KWA construction cost estimate for the transmission system and Flint WTP improvements.

Revenue bonds were also identified as the source of financing the new supply system and associated improvements. This section describes the assumptions made and the interest used for financing the improvements.

KWA Supply System

The most current cost estimate of the KWA system was presented in the document titled; Lake Huron Supply Study, KWA, Appendix 20, October 2012 Preliminary Report Update, Final Report (DRAFT), October 4, 2012. The cost of construction is estimated at $272,421,558. Flint's portion would be 30% or $81,726,467.

Due to the significance of this expenditure, a detailed review of the cost was performed and is presented in this section. The analysis was performed based on the main elements of the supply system: the lake intake, the two pumping stations, and the transmission pipeline. Additionally, an analysis was performed related to construction contingencies and other costs such as engineering, legal, and administration.

Lake Intake

KWA representatives indicated in a meeting in November that the design documents for the intake were at 90% and that it was planned for advertisement in January 2013. A summary of the estimate is shown in Table 5-1.

Description	Estimate
Intake and Crib	$22,076,850
ELAC at 25%	5,519,213
Property	2,300,000
Total	**$29,896,063**

Table 5-1: KWA Intake Cost Estimate

Based on the evaluation, it appeared that the cost estimate was reasonable. Given that the design was nearly complete, the engineering, legal, administration, and construction contingencies (ELAC) at 25% were also found to be appropriate.

Pumping Stations

KWA representatives indicated that the pump stations were estimated at a level of design less than 15%. Therefore, in addition to an evaluation of their cost estimate, other water pumping station costs were used for comparison. Additionally, contractors were also contacted for costs. Table 5-2 summarizes the KWA cost estimate compared to our cost estimate performed for the Treasury.

Description	KWA	Estimate	TVA	Estimate
Pumping Stations		$24,618,080		$54,573,314
Land for Intermediate Pump Station and Reservoir		--		75,000
Subtotal		$24,618,080		$54,648,314
ELAC for Construction	25%	6,154,520	30%	16,394,494
Total		**$30,772,600**		**$71,042,808**

Table 5-2: Pumping Stations Cost Estimate

Two things to note regarding the difference in the cost estimates; firstly, there is a large difference in the cost estimates of the pumping stations. The estimate developed for the Treasury used several other pumping stations construction costs from Southeastern Michigan and discussions with contractors. These costs were then computed on a $/MG's for comparison.

Secondly, our estimate for the Treasury is based on an ELAC of 30% instead of KWA's 25%. Although 25% was acceptable for the intake, it is believed to be too low for the pumping station estimate given that the engineering effort is less than 15%.

Transmission Main

Although the specific route for the transmission main was not provided, an estimate was calculated based on the general information provided. Once again, the KWA estimate was based on a level of design less than 15%. The estimate performed for the Treasury used the line items provided by KWA for the pipeline and also consulted with contractors to evaluate the cost of construction. The comparison is shown in Table 5-3.

Although the cost of construction of the pipeline is similar, a value of 30% was used for ELAC due to the level of design. Additionally, KWA did not believe there would be any additional costs for easements; however, this did not seem practical. Therefore an estimate for acquiring the easements was added to the Treasury estimate and is based on the 277 easements identified by KWA. The cost shown includes surveying, legal, engineering, administration, etc.

Description	KWA	Estimate	TYJT	Estimate
Transmission Mains		$166,202,316		$167,419,530
ELAC for Construction	25%	41,550,579	30%	50,225,859
Subtotal		$207,752,895		$217,645,389
Easements		--		1,166,170
Total		**$207,752,895**		**$218,811,559**

Table 5-3: Transmission Pipeline Cost Estimate

Other KWA Costs

In prior estimates of the construction cost, KWA used an ELAC of 37%. In this case it could be considered that the engineering effort associated with the design would have been included. However, it is believed that KWA's reduced ELAC of 25%, does not include the design effort. Additionally, it would be prudent to assume that the owner would want a construction manager during construction of this large project. A summary of these costs are shown in Table 5-4.

Description	Estimate
Design Engineering for Pumping Stations and the Transmission Pipeline	$16,939,581
Construction Management at 5%of Project Cost Estimate of $217,645,389	14,434,609
Administration	349,440
Legal, Easements, Contract Documents	831,000
Total	**$32,554,630**

Table 5-4: Other Costs

Summary Comparison

A summary of the two cost estimates are shown in Table 5-5. Based on the comparison, the estimate performed by TYJT shows a higher cost to Flint by approximately $25,000,000.

Note that there are two other costs shown in the summary that were not previously addressed; power and backup power. Regarding the cost of providing power to the pumping facilities, the cost of $4,000,000 appears reasonable.

The KWA has repeatedly indicated that backup power is not needed. Backup power is a standard practice in the water industry. Furthermore, a loss of power at either pumping facility will prevent the supply of water to both Flint and Genesee County. For these reasons, the cost of providing backup power was included in our estimate for the Treasury.

Description	KWA Estimate	TY/T Estimate
Intake/Crib	$ 27,596,063	$ 27,596,063
Pump Stations	30,772,600	71,042,808
Transmission Mains	207,752,895	217,645,389
Power	4,000,000	4,000,000
Redundant Power for PS		1,273,200
Land for Lake Huron Pumping Station	2,300,000	2,300,000
Design Engineering/PS and Transmission		16,939,581
Construction Management		14,434,410
Administration		349,440
Legal/Easement/Contract Documents		831,000
Easements		1,166,170
Total	**$ 272,421,558**	**$ 357,578,060**
Flint Share at 30%	**$81,726,467**	**$107,273,418**

Table 5-5: Total Cost Comparison

Flint WTP Improvements

The KWA analysis identified capital costs required to convert the existing WTP from river water treatment to treating lake water. The cost estimate was identified as $7,100,000 in the 2009 report. This number was used in the our analysis, since additional information was not provided. For the purpose of the financial analysis; however, the $7,100,000 was increased by 3% each year for three years to account for inflation.

DWSD Imlay Station Supply Options

The options identified by DWSD to supply service to Flint at the Imlay Pump Station would require Flint to purchase the 72-inch water main from Imlay to Master Meter, FL-1. The pipeline is approximately 25 miles long. The estimated cost provided by DWSD for estimating purposes is $4,700,000.

Financing

The cost of financing the revenue bonds for the capital work was investigated. Based on conversations with local financial advisors knowledgeable in bond financing, an interest rate of 5% for the 25 year

period was considered acceptable. This is based on a Standard and Poor's bond rating of A without insurance.

Additional costs associated with the bond include the reserve and bond issuance fee. The bond holders will require a reserve of approximately 10% of the loan to be held for the 25 year payment period. The cost associated with the bond issuance has been estimated at 2.25% of the principal borrowed for the KWA project and 3% for the smaller loan associated with the Flint WTP improvements or the purchase of the 72-inch main.

Furthermore, since no revenue will be generated to pay on the bonds for the first three years that the system is being constructed, the cost associated with capitalizing the interest was also included.

Finally, interest on the reserve will be provided back to KWA and Flint. Although the interest is currently less than 1%, it was determined that a 3% rate would be more prudent long-term.

6. FINDINGS

Using the information described in the previous sections, a cost evaluation was conducted for the KWA supply and the DWSD options. Individual worksheets for each option are provided in Appendix B. For the purpose of comparison a 30 year period was used. This period includes the 3 year construction period, the 25 loan period and an additional two years to get a sense of the cost of operation after the loans have been paid.

There were three separate cost sheets prepared for the KWA option. The first cost sheet (KWA) is based on the cost estimate provided by KWA. The costs provided assumed no overruns or delay in construction. With KWA's own assumptions of an overrun in construction of 15% and a one year delay in operations, the KWA estimated cost becomes $686,375,920 through Year 2042.

Since this cost estimate did not appear to include the financing of revenue bonds, another cost sheet (KWA-1) was developed that included KWA's cost estimate without overruns with the additional finance costs associated with the revenue bonds. A final cost sheet (KWA-2) includes the cost associated with the revenue bonds based on the estimate provided by TYJT for the Treasury.

A summary of the cost sheets provided in Appendix B are shown in Table 6-1. Figure 6-1 shows the cumulative annual costs associated with each option.

Option	Costs through 2042 ($)	Ranking by Cost
DWSD 8 MGD Maximum Day at Imlay Station	634,795,488	1
KWA *(10/31/12 No Overruns, As Provided)**	649,775,166	2
DWSD 8 MGD Maximum Day at FL-1	672,671,705	3
KWA-1 *(10/31/12 No Overruns with Cost of Financing)*	707,279,715	4
DWSD 12 MGD Maximum Day at Imlay Station	725,576,803	5
DWSD 12 MGD Maximum Day at FL-1	762,110,308	6
KWA-2 *(Treasury Estimate)*	766,784,313	7
DWSD 18 MGD Maximum Day at FL-1	821,226,268	8

* $686,375,920 with 15% overrun in construction and a one year delay in operations

Table 6-1: Total Cost of Options through 2042

Based on the analysis, it is prudent to assume the KWA water supply option costs would be somewhere between the KWA-1 and KWA-2 options. Therefore, the analysis indicates that the two DWSD options of supplying 8 MGD on a maximum day and up to 8 MGD on average are the least cost options for Flint. These options allow Flint to maximize the use of existing assets; the City of Flint's (the Flint WTP) and DWSD's (the existing 72-inch main).

Additionally, in recent conversations with the Treasury another option was discussed that could potentially be the most cost-effective solution. Currently the Flint WTP serves as a backup if service is

lost through either the DWSD or KWA pipeline. If the a twin pipe paralleling the DWSD 72-inch water main were constructed with interconnects with the 72-inch line, then the new water main could serve as the backup to Flint and the Flint WTP could be abandoned or potentially sold to Genesee County for their use.

The construction of the parallel pipeline would be considered in the DWSD capital expenditure as a Common to All (CTA) cost. This means that the capital cost of the pipeline would be shared by all DWSD customers and not just by Flint. Preliminary analysis of this option appears to be the most cost-effective of all the options discussed. However, a more thorough cost analysis is warranted and this approach would require an agreement between Flint and DWSD.

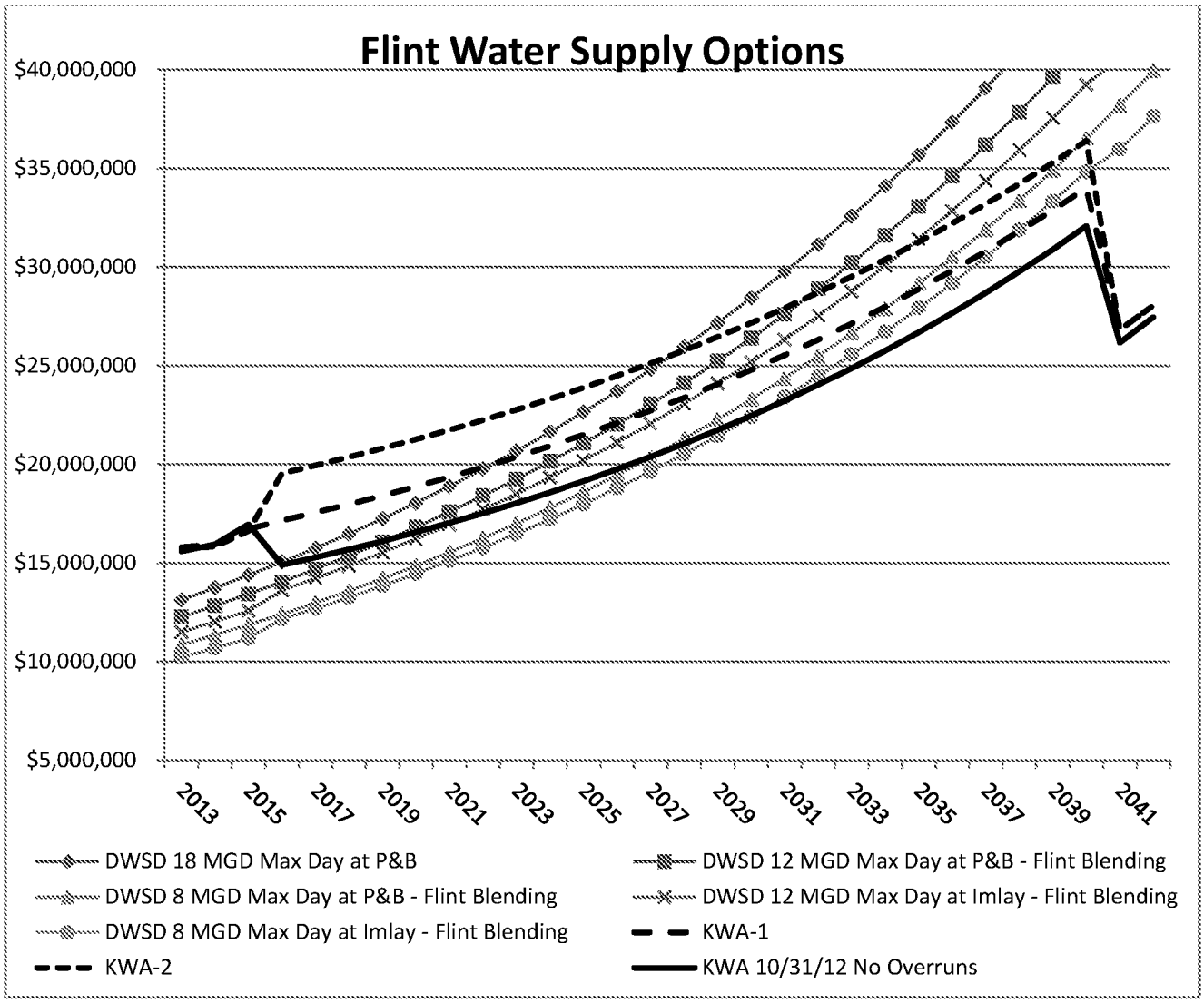

Figure 6-1: Flint Water Supply Options through 2042

7. OTHER CONSIDERATIONS

As part of the investigation other issues were identified that may result in risks to Flint that should be considered by the Treasury in determining how Flint's potable water should be supplied. These issues are related to redundancy and reliability, other items affecting cost, and Flint's desire to control its own destiny related to its water supply. These are described further below.

Redundancy/Reliability

In one of the first meetings related to this task assessment, which was held on November 1, 2012, the Genesee County Drain Commissioner, Mr. Jeff Wright, stated that one of the main reasons for pursuing the KWA supply option related to the lack of reliability of the DWSD system. He pointed to the Northeast blackout of 2003; a widespread power outage that occurred throughout parts of the Northeastern and Midwestern United States and Ontario, Canada, on Thursday, August 14, 2003. He stated that Flint and Genesee County were out of water for several days.

It is worth noting that this was a power outage of historic proportions that affected millions of Americans. However, DWSD did begin supplying water again relatively quickly in comparison to other major cities impacted by the same power outage.

Furthermore, the KWA supply system offers less redundancy to Flint than the current DWSD system. Under both options, Flint is supplied by a single pipeline; however, DWSD has backup power at all of its major facilities supplying Flint. The KWA system will not have a redundant power at its pumping facilities. This would be a major risk.

Currently, backup to the DWSD system for Flint is Flint's WTP using the Flint River as the source of supply. KWA has stated that the Flint River source would also be used as backup to Flint if the KWA supply through its pipeline was lost. However, since the Flint WTP would be upgraded to treat Lake Huron water under the KWA option, using the Flint River as a backup source would require the Flint WTP to maintain two process treatment streams.

In addition to Flint and Genesee County, the DWSD's 72-inch main supplies Imlay City, Mayfield and the Greater Lapeer County Utilities Authority (GLCUA). The volume of water contained within the 72-inch main is approximately 30 MG. Only supplying these three remaining communities would cause the water age to increase dramatically; somewhere in excess of three weeks old, before reaching the customers' master meters. Since the half-life of chlorine in the DWSD system is approximately 5 days, the chlorine would most probably be near zero requiring re-chlorination of the finished water upstream of the master meters.

Re-chlorinating is a costly and risky process due to the instability of chlorine gas. It is unknown whether DWSD would pursue this improvement or possibly abandoned the 72-inch pipeline.

If Flint is supplied by the KWA system, then DWSD supplying their other customers along the 72-inch water main may be reconsidered. Since the KWA system is a raw water supply, the communities would

either have to build a treatment facility to treat the water from KWA or find another water source for their communities.

Additional Cost and Risk Considerations

The design of the KWA supply and the construction of the system have not been completed; therefore, final costs and time to complete are unknown. Cost overruns and delays in completion will both negatively impact Flint's final cost. As example, if the project is not completed within the three year period, payment on the bonds will be due, but the revenue source needed from the sale of water could not be provided.

Furthermore, there is always a risk with large water system construction; especially those including an intake in the Great Lakes, pumping stations and rehabilitation of older water treatment plants. These risks include the potential of explosive gases in tunneling below Lake Huron, changing site conditions associated with the large number of miles of pipe installation and rehabilitating an older WTP, and the startup and debugging of the entire pumping system.

Flint has indicated that they have a high water loss. Not addressing this issue prior to sizing the Flint supply pipeline from KWA could cause the water main to be oversized along with its incremental cost in construction.

Also, the KWA supply option appears to run counter to the Treasury's Competitive Grant Assistance Program (Formerly EVIP Grant). This program has been put in place to allow for communities to consolidate their services and save money. Two existing customers of DWSD (Flint and Genesee County) along with the potential of others customers (GLCUA, Mayfield, Imlay City) separating to from another water system is in contradiction to the program.

Finally, there is a concern over the ability of smaller systems (KWA) over larger systems (DWSD) to pay for future unfunded mandates and regulations. Obviously, identifying regulation requirements over 30 years is hard to determine. However, it is widely accepted that a large system has greater ability to respond to unfunded mandates because the cost can be distributed over a large customer base.

Flint's Autonomy

Flint has indicated that a major point of consideration is that they have no control over the rate increases issued to Flint by DWSD. All other counties supplied by DWSD have representatives on the Board of Water Commissioners (BOWC). The BOWC is one of the governing bodies that approve the water rates. Since Flint and Genesee County do not have a representative on the BOWC, Flint believes they are held "hostage" to DWSD's rates and cost of service.

This issue was stated in Flint's handout at the November 1, 2012 meeting. The handout is titled, "Flint Water Supply Future." However, it is worth noting in the same handout, Flint also identifies similar concerns with the governing board of the KWA system. Notably, that although Flint and Genesee County will be the only customers and Flint will be responsible for 30 percent of the construction cost,

they will have a minority vote on the KWA board. Furthermore, there are other communities (Lapeer County, the City of Lapeer, and Sanilac County) that sit on the board and vote. However, they are not purchasing water nor contributing to the construction costs.

STATE OF MICHIGAN CONTRACT NO. 271N3200089

CITY OF FLINT WATER SUPPLY ASSESSMENT

State of Michigan, Department of Treasury

Appendix A: Meeting Minutes

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(313)963-0612 FAX (313)963-2156

MEETING MINUTES

IN ATTENDANCE: Sue McCormick, DWSD Director
Darryl Latimer, DWSD Deputy Director
George Karmo, TYJT
Awni Qaqish, TYJT
Dave Guastella, TYJT

DATE: November 24, 2012

PURPOSE OF MEETING: Meeting with DWSD for the Indefinite-scope, Indefinite-delivery Contract Number 00383, 2012 Professional General Architectural/Engineering Services – City of Flint Water Supply Assessment

PREPARED BY: Dave Guastella

A meeting was held at the DWSD Main Office Building on November 19, 2012 to discuss the water supply options being presented by DWSD to the City of Flint. The main items discussed generally followed the attached DWSD Discussion/Questions that were provided to the Department prior to the meeting. A summary of the key points discussed are provided below.

DISCUSSION ITEMS

1. Question/Discussion Item: Verify that the four options presented at the November 1, 2012 meeting are still available for consideration:

    a. Supplied from Potter & Baxter using the new model contract (assume a Maximum Day Customer),

    b. Supplied from Imlay Station,

    c. Finished un-pumped supply from Lake Huron WTP, and

    d. Raw un-pumped supply from Lake Huron WTP.

    DWSD prefers to focus on the first two supply point listed; from the current location at Potter & Baxter and at the Imlay Pump Station as these apply specifically to Flint.

    DWSD provided the attached summary regarding the current costs to Flint based on the various options that DWSD is offering. The savings associated with each option is provided as well. As example, if Flint were to purchase water from the supply point located at Imlay Station, the current cost to Flint would be $5,661,000 and it would be a savings of nearly 50%

Comments: Meeting minutes were recorded based on the understanding of the author. Please contact the author within three days if you have any different understanding of the meeting. These minutes will be considered approved unless comments are provided within three days.

compared to Flint's current rate.

2. Question/Discussion Item: What additional capital improvements will be required for each option?

   If Imlay Pump Station is selected as the supply point then Flint would need to purchase the 72-inch water main and an agreement to supply Lapeer would need to be worked out. DWSD believes that this could be worked out through a "wheeling" charge over the 72-inch main or possibly moving the supply point downstream of the Lapeer connection.. DWSD estimates the value of the water main at $4.7M. Flint could bond for this amount or DWSD could include the cost into Flint's rate.

3. Question/Discussion Item: Are there other options being presented that should be considered (e.g., blending)?

   Only the two options indicated above are currently being considered and both would include blending; DWSD providing 2/3 of the supply and the Flint WTP providing the other 1/3.

4. Question/Discussion Item: To evaluate each option over the 25 year planning period, provide:

   a. Annual water rate for Flint for 2002 through 2012, and the

   b. Projected annual rate adjustment for each option. What are the proposed measures to keep the rate adjustments down in the future?

   DWSD provided the attached historical rates from 2002 through 2012 for the existing water contract with Flint. The attachment also includes what the rates would have been if Flint had signed the new model contract or had taken service from Imlay. These rates were provided back to 2010.

   DWSD believes that 5% would be a good estimation to assume for their annual escalation in rates over the 25 year planning period.

5. Question/Discussion Item: Flint stated a 10% increase in the capacity charge. What number did DWSD provide Flint?

   It was unclear to DWSD where the 10% increase in capacity charge stated by Flint came from. DWSD's information provided shows an average of 6.3%. DWSD offered a meeting with TYJT to discuss how the fixed and commodity charges are allocated.

6. Question/Discussion Item: Flint financial comparison is based on the initial Cost of $14,413,858, which includes $2,725,538 for Flint WTP operating cost; i.e, DWSD charge is $11,688,320. How good is this number?

   DWSD indicated that the charge of $11,638,320 is good through 6/30/13.based on their existing contract with DWSD.

7. Question/Discussion Item: KWA's initial charge to Flint is based on 12 MGD. Is DWSD charge

based on 12 MGD?

Yes, 12 MGD from DWSD would be a maximum with Flint supplying 6 MGD for a total of 18 MGD (2/3 vs. 1/3).

Comments: Meeting minutes were recorded based on the understanding of the author. Please contact the author within three days if you have any different understanding of the meeting. These minutes will be considered approved unless comments are provided within three days.

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Indefinite-scope, Indefinite-delivery Contract Number 00383
2012 Professional General Architectural/Engineering Services

CITY OF FLINT WATER SUPPLY ASSESSMENT

DWSD Discussion/Questions for the November 19, 2012 Meeting

1. Verify that the four options presented at the November 1, 2012 meeting are still available for consideration:
    c. Supplied from Potter & Baxter using the new model contract (assume a Maximum Day Customer),
    d. Supplied from Imlay Station,
    e. Finished un-pumped supply from Lake Huron WTP, and
    f. Raw un-pumped supply from Lake Huron WTP.
2. What additional capital improvements will be required for each option?
3. Are there other options being presented that should be considered (e.g., blending)?
4. To evaluate each option over the 25 year planning period, provide:
    g. Annual water rate for Flint for 2002 through 2012, and the
    h. Projected annual rate adjustment for each option. What are the proposed measures to keep the rate adjustments down in the future?
5. Flint stated a 10% increase in the capacity charge. What number did DWSD provide Flint?
6. Flint financial comparison is based on the initial Cost of $14,413,858, which includes $2,725,538 for Flint WTP operating cost, i.e DWSD charge is $11,688,320. How good is this number?
7. KWA's initial charge to Flint is based on 12 MGD. Is DWSD charge based on 12 MGD?

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Summary of DWSD Cost Allocations to Flint Under Various Scenarios

Flint Only

	Revenue Requirement	Rates and Charges: Fixed	Rates and Charges: Commodity	Rates and Charges: Avg Unit Cost
1 **Status Quo**	11,461,700	357,271	12.46	19.91
2 **Model Contract**	9,732,100	275,517	11.16	16.90
3 Change	(1,729,600)	(81,754)	(1.30)	(3.00)
4 % Change	*-15.1%*	*-22.9%*	*-10.4%*	*-15.1%*
5 **Max Day Only**	9,424,700	271,010	10.72	16.37
6 Change	(307,400)	(4,507)	(0.44)	(0.53)
7 % Change	*-3.3%*	*-1.7%*	*-4.1%*	*-3.3%*
8 **Allow Blending**	6,302,800	182,369	10.72	16.42
9 Change	(3,121,900)	(88,641)	0.00	0.05
10 % Change	*-49.5%*	*-48.6%*	*0.0%*	*0.3%*
11 **Imlay City Connections**	5,800,700	170,912	9.77	15.11
12 Change	(502,100)	(11,457)	(0.95)	(1.31)
13 % Change	*-8.7%*	*-6.7%*	*-9.7%*	*-8.7%*
14 Cumulative Change	(5,661,000)	(186,359)	(2.69)	(4.80)
15 Cumulative %Change	*-49.4%*	*-52.2%*	*-21.6%*	*-24.1%*

	Assumptions: Avg Day	Max Day	Peak Hour	Distance	Elevation	Sales
	mgd	*mgd*	*mgd*	*miles*	*feet*	*mgd*
1 **Status Quo**	11.8	21.6	22.6	52.0	866	**11.8**
2 **Model Contract**	11.8	**17.9**	**18.8**	52.0	866	11.8
3 **Max Day Only**	11.8	17.9	**17.9**	52.0	866	11.8
4 **Allow Blending**	7.9	**11.9**	**11.9**	52.0	866	7.9
5 **Imlay City Connections**	7.9	11.9	11.9	**45.2**	**866**	7.9

Recent DWSD Water Rates to Flint

FY	Rates and Charges			Annual Change			*Average*
	Fixed	Commodity	Avg Unit Cost	Fixed	Commodity	Avg Unit Cost	*Annual Change*
	$/mo	*$/Mcf*	*$/Mcf*	*$/mo*	*$/Mcf*	*$/Mcf*	
As Charged							
2004		11.06	11.06				
2005		10.24	10.24			-7.4%	
2006		10.56	10.56			3.1%	
2007		11.09	11.09			5.0%	
2008		11.35	11.35			2.3%	
2009		13.07	13.07			15.2%	
2010		14.32	14.32			9.6%	
2011	182,301	14.29	16.01		-0.2%	11.8%	
2012	443,096	13.36	17.53	143.1%	-6.5%	9.5%	
2013	707,000	12.46	19.12	59.6%	-6.7%	9.1%	**6.3%**
Hypothetical Model Contract							
2004		11.06	11.06				
2005		10.24	10.24			-7.4%	
2006		10.56	10.56			3.1%	
2007		11.09	11.09			5.0%	
2008		11.35	11.35			2.3%	
2009		13.07	13.07			15.2%	
2010		***13.96***	***13.96***			6.8%	
2011	***145,918***	***13.74***	***15.28***		-1.6%	9.5%	
2012	***378,968***	***12.58***	***16.57***	159.7%	-8.4%	8.4%	
2013	***597,323***	***11.63***	***17.93***	57.6%	-7.6%	8.2%	**5.5%**

Recent DWSD Water Rates to Flint

	Rates and Charges			Annual Change			*Average*
FY	Fixed	Commodity	Avg Unit Cost	Fixed	Commodity	Avg Unit Cost	*Annual Change*
	$/mo	*$/Mcf*	*$/Mcf*	*$/mo*	*$/Mcf*	*$/Mcf*	
As Charged							
2004		11.06	11.06				
2005		10.24	10.24			-7.4%	
2006		10.56	10.56			3.1%	
2007		11.09	11.09			5.0%	
2008		11.35	11.35			2.3%	
2009		13.07	13.07			15.2%	
2010		14.32	14.32			9.6%	
2011	182,301	14.29	16.01		-0.2%	11.8%	
2012	443,096	13.36	17.53	143.1%	-6.5%	9.5%	
2013	707,000	12.46	19.12	59.6%	-6.7%	9.1%	**6.3%**
*Hypothetical Model Contract - **Flint Only***							
2004		11.06	11.06				
2005		10.24	10.24			-7.4%	
2006		10.56	10.56			3.1%	
2007		11.09	11.09			5.0%	
2008		11.35	11.35			2.3%	
2009		13.07	13.07			15.2%	
2010		***11.73***	***11.73***			-10.3%	
2011	***70,060***	***12.45***	***13.89***		6.1%	18.4%	
2012	***175,882***	***11.47***	***15.08***	151.0%	-7.9%	8.6%	
2013	***272,923***	***10.65***	***16.24***	55.2%	-7.1%	7.7%	**4.4%**

Recent DWSD Water Rates to Flint

FY	Rates and Charges			Annual Change			*Average*
	Fixed	Commodity	Avg Unit Cost	Fixed	Commodity	Avg Unit Cost	*Annual Change*
	$/mo	*$/Mcf*	*$/Mcf*	*$/mo*	*$/Mcf*	*$/Mcf*	
As Charged							
2004		11.06	11.06				
2005		10.24	10.24			-7.4%	
2006		10.56	10.56			3.1%	
2007		11.09	11.09			5.0%	
2008		11.35	11.35			2.3%	
2009		13.07	13.07			15.2%	
2010		14.32	14.32			9.6%	
2011	182,301	14.29	16.01		-0.2%	11.8%	
2012	443,096	13.36	17.53	143.1%	-6.5%	9.5%	
2013	707,000	12.46	19.12	59.6%	-6.7%	9.1%	**6.3%**
*Hypothetical Model Contract - **Flint Only @ Imlay***							
2004		11.06	11.06				
2005		10.24	10.24			-7.4%	
2006		10.56	10.56			3.1%	
2007		11.09	11.09			5.0%	
2008		11.35	11.35			2.3%	
2009		13.07	13.07			15.2%	
2010		***11.16***	***11.16***			-14.6%	
2011	***65,919***	***10.88***	***12.23***		-2.5%	9.6%	
2012	***165,275***	***9.89***	***13.28***	150.7%	-9.1%	8.6%	
2013	***255,580***	***9.09***	***14.32***	54.6%	-8.1%	7.8%	**2.9%**

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MEETING MINUTES

IN ATTENDANCE: Ed Kurtz; Flint Emergency Financial Manager, City of Flint
Dayne Walling; Mayor, City of Flint
Mike Brown, City of Flint
John O'Brien, Genesee County
Howard Croft, City of Flint
Dwayne "Duffy" Johnson, City of Flint
Brent Wright, City of Flint
Awni Qaqish, TYJT
Dave Guastella, TYJT

DATE: November 24, 2012

PURPOSE OF MEETING: Meeting with the City of Flint for the Indefinite-scope, Indefinite-delivery Contract Number 00383, 2012 Professional General Architectural/Engineering Services – City of Flint Water Supply Assessment

PREPARED BY: Dave Guastella

A meeting was held at the City of Flint Municipal Center on November 20, 2012 to discuss the water supply option being presented by the Karegnondi Water Authority (KWA) to the City of Flint. The main items discussed generally followed the attached KWA Discussion/Questions that were provided to City prior to the meeting. A summary of the key points discussed are provided below.

The questions submitted are repeated in the Discussion Items for easy reference. A summary of the action items generated from the meeting follow the Discussion Items.

DISCUSSION ITEMS

1. Question/Discussion Item: Is the maximum day demand of 18 MGD for Flint the maximum day demand (MDD) throughout the 25 year planning period? If not, what is the 25 year projected MDD?

   KWA would supply up to 18 MGD. 18 MGD has been assumed as the maximum day demand and 12 MGD is assumed as the average day demand throughout the 25 year planning period.

2. Question/Discussion Item: Copy of the intake contract documents and engineer's estimate.

   The intake contract documents are approximately 90% complete and are not available for distribution. However, the updated Appendix 20, dated October 4, 2012 includes the most recent cost estimate of the intake based on the current design in process.

Comments: Meeting minutes were recorded based on the understanding of the author. Please contact the author within three days if you have any different understanding of the meeting. These minutes will be considered approved unless comments are provided within three days.

3. Question/Discussion Item: Documentation of the Flint WTP improvements required and cost estimate.

   The costs are approximately $7M as presented in the September 2009 Preliminary Engineering Report. However, this estimate has been updated. Some processes have been eliminated. John O'Brien will provide the updated costs and the description of the planned improvements to the plant.

4. Question/Discussion Item: Confirm Flint's allocated percentage of the KWA capital improvements (30%?).

   Yes, the allocation is based on 18 MGD/60 MGD total capacity.

5. Question/Discussion Item: Copy of the proposed KWA operating agreement for Flint.

   John O'Brien will provide the operating agreement as well as the Capacity Contract and Articles of Incorporation.

6. Question/Discussion Item: What is the annual operating agreement adjustment projected for the 25 year planning period?

   This information is provided in Appendix 14, Table 14.2 of the September 2009 Preliminary Engineering Report. Operating cost based on Table 1. Used 12 MGD as average day demand (ADD). Assumed 5% as the annual increase in operating costs. John O'Brien indicated that these operating costs were based on Genesee County's operating costs. John O'Brien will provide the last 10 years of audited financial statements for the water fund.

   To assess operating and maintenance costs for the Flint WTP, Duffy will provide multiple years of financial statements for the water fund. Duffy did not believe they had 10 years, but they will provide what they have.

   Regarding operation and maintenance costs, Flint believes that these costs will increase by 2/3 of what they are now.

7. Question/Discussion Item: Need the route of the pipelines and the locations of the facilities proposed. Purpose is to identify constraints that impact costs (i.e., utilities, environmental (e.g. wetlands), easements, etc.).

   KWA will not release the route due to concerns regarding speculation of land and easements. John O'Brien did indicate that the Lake Huron pump station would be at Fisher and M-25. The intermediate pump station site is near a location of the Lapeer/Sanilac/St. Clair border; where all three meet.

8. Question/Discussion Item: KWA's initial charge to Flint is based on a 12 MGD average day demand. What is the basis of this number? Are there population projections and water use figures available that were used to determine the Flint demand for the 25 year planning period?

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This was answered in Question No. 1 above.

9. Question/Discussion Item: Is there a transition plan and cost during construction of the KWA system identified?

   Flint is looking for an agreement with DWSD for back-up supply from the 72-inch main at the Genesee border.

10. Question/Discussion Item: The October 4, 2012 Preliminary Engineering Report Update states: "no backup power is planned for the pumps" (LHPS) and "No backup power is planned for pumping" (IPS). In case of power loss, how would Flint supply its customers?

    Flint indicated that they have adequate storage to supply the system for 6 to 7 days. Flint has 55 MG of storage and Genesee County has 65 MG for 2.5 days.

11. Question/Discussion Item: The latest plan shows only a 5 million gallon ground reservoir is planned for balancing between LHPS and IPS. How is redundancy maintained?

    In cases of emergency, Flint indicated that the back-up for the KWA system will be the same as it is now with DWSD; they will use the Flint River as the source water. Flint currently operates their plant four times a year.

    When questioned as to whether the WTP will be able to treat both lake water from the KWA system and river water Flint indicated that once the improvements identified in the September 2009 Preliminary Engineering Report are completed they will be able to accomplish both treatment processes. Flint will provide a schematic of the treatment trains at the WTP and a copy of the Flint transmission system.

    Genesee County indicated that additional redundancy would also be provided from the new Genesee County WTP.

    Regarding hydraulic transients; Genesee County indicated that a model analysis has not been included, but capital costs for mitigating transients have been included.

12. Question/Discussion Item: Related to the construction cost:

    a. Does it include an additional traffic lane since the construction will occupy half the right of way? *Not required, all roads are county roads; however, there are a few State road crossings*.

    b. Does it include costs/fees for permit requirements such as inspection cost by the jurisdictional authorities? As a point of reference, the permit fee costs for the Flint Transmission System came out to be $5.8 million. *Not required; all of the counties have waived any fees.*

    c. Does the cost of the steel pipe segments include corrosion protection measures such as

anode stations and related O&M? *Yes; however, the KWA has not settled on using steel pipe. PCCP pipe may be used. Steel shown in estimate because it is highest in cost and therefore the pricing is conservative.*

d. SCADA monitoring stations require power. Is the cost of bring power to the SCADA stations included? Again, as a point of reference for the Flint Transmission System we estimated $800,000 for power to SCADA and valve operators. *Yes, Genesee County did emphasize that the SCADA system will be simple and straightforward because a lot of controls are not required.*

e. Other items discussed at the meeting included:

- The 2009 plant improvement cost is still good; however, there will be some reduction, such as a sulfuric chloride feed system that was eliminated. Plant capacity now is 36MGD, but will be 18 MGD.
- The KWA Lake Huron Pumping Station (LHPS) is now only high lift pump station.
- Genesee County will provide the distance of the intake pipe from the crib to the LHPS.
- The intake project is almost ready to bid; waiting for the COE permit.
- Genesee County is estimating the construction for the pipe lines and pump stations will begin July 2013.
- The route has been flown for survey.
- Genesee County is estimating construction will be complete and the project will be placed in service by Jan 2016.
- Genesee County to provide a list of assumptions that the $272 million cost estimate is based on since the route is now known.

13. The Flint River is identified as a backup: At what capacity? MDD or emergency supply?

    The Flint River would serve as a back up supply.

14. Where did the 40 years come from (Flint hostage to Detroit)? DWSD's new contracts are 30 years with openers to revise terms of supply (volume and pressure) after the first two years, then three years, and then in five year increments thereafter.

    The 40 years was stated in error. The reference was to DWSD's requirement to sign a 30 year contract.

    After 40 years Flint will own 30% of the project and can sell their share of ownership if they want. Conversely, with DWSD, they continue to pay for the capital projects but have no ownership. Flint believes they will know what they will be charged for the next 25 years versus DWSD that can't commit to a fixed escalation.

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Action Items for Follow-up		
Items:	***Assigned To:***	***Date to Complete***
1. Updated Costs for the Flint WTP Improvements and a description of the improvements.	John O'Brien	11/21/12
2. KWA Operating Agreement, Capacity Contract and Articles of Incorporation.	John O'Brien	11/20/12
3. Provide the last 10 years of audited financial statements for the Genesee water fund.	John O'Brien	11/20/12
4. Provide multiple years of financial statements for the City of Flint water fund.	Duffy Johnson	11/26/12
5. Provide schematic of the Flint WTP and a map of the Flint transmission system.	Brent Wright	11/26/12
6. Provide the length of the intake pipe from the crib to the pump station.	John O'Brien	11/20/12
7. Provide a list of assumptions that the $272 million cost estimate is based on since the route is now known.	John O'Brien	11/26/12

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Indefinite-scope, Indefinite-delivery Contract Number 00383
2012 Professional General Architectural/Engineering Services

CITY OF FLINT WATER SUPPLY ASSESSMENT

KWA Discussion/Questions for the November 20, 2012 Meeting

1. Is the maximum day demand of 18 MGD for Flint the maximum day demand (MDD) throughout the 25 year planning period? If not, what is the 25 year projected MDD?
2. Copy of the intake contract documents and engineer's estimate.
3. Documentation of the Flint WTP improvements required and cost estimate.
4. Confirm Flint's allocated percentage of the KWA capital improvements (30%?).
5. Copy of the proposed KWA operating agreement for Flint.
6. What is the annual operating agreement adjustment projected for the 25 year planning period?
7. Need the route of the pipelines and the locations of the facilities proposed. Purpose is to identify constraints that impact costs (i.e., utilities, environmental (e.g. wetlands), easements, etc.).
8. KWA's initial charge to Flint is based on a 12 MGD maximum day demand. What is the basis of this number? Are there population projections and water use figures available that were used to determine the Flint demand for the 25 year planning period?
9. Is there a transition plan and cost during construction of the KWA system identified?
10. The October 4, 2012 Preliminary Engineering Report Update states: "no backup power is planned for the pumps" (LHPS) and "No backup power is planned for pumping" (IPS). In case of power loss, how would Flint supply its customers?
11. The latest plan shows only a 5 million gallon ground reservoir is planned for balancing between LHPS and IPS. How is redundancy maintained?
12. Related to the construction cost:
    a. Does it include an additional traffic lane since the construction will occupy half the right of way?
    b. Does it include costs/fees for permit requirements such as inspection cost by the jurisdictional authorities? As a point of reference, the permit fee costs for the Flint Transmission System came out to be $5.8 million.

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c. Does the cost of the steel pipe segments include corrosion protection measures such as anode stations and related O&M?
d. SCADA monitoring stations require power. Is the cost of bring power to the SCADA stations included? Again, as a point of reference the for the Flint Transmission System we estimated $800,000 for power to SCADA and valve operators.

13. The Flint River is identified as a backup: At what capacity? MDD or emergency supply?
14. Where did the 40 years come from (Flint hostage to Detroit)? DWSD's new contracts are 30 years with openers to revise terms of supply (volume and pressure) after the first two years, then three years, and then in five year increments thereafter.

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STATE OF MICHIGAN CONTRACT NO. 271N3200089

CITY OF FLINT WATER SUPPLY ASSESSMENT

State of Michigan, Department of Treasury

Appendix B: Cost Worksheets

DWSD Worksheet : 18 MGD Maximum Day Customer with Model Contract at Potter & Baxter

Capacity

Flint ADD:	0.60	MGD	81	MCF/Day
DWSD ADD:	12	MGD	1,604	MCF/Day

Annual Volume

Flint:	29,412	MCF
DWSD:	585,561	MCF

2013 Cost of Supply

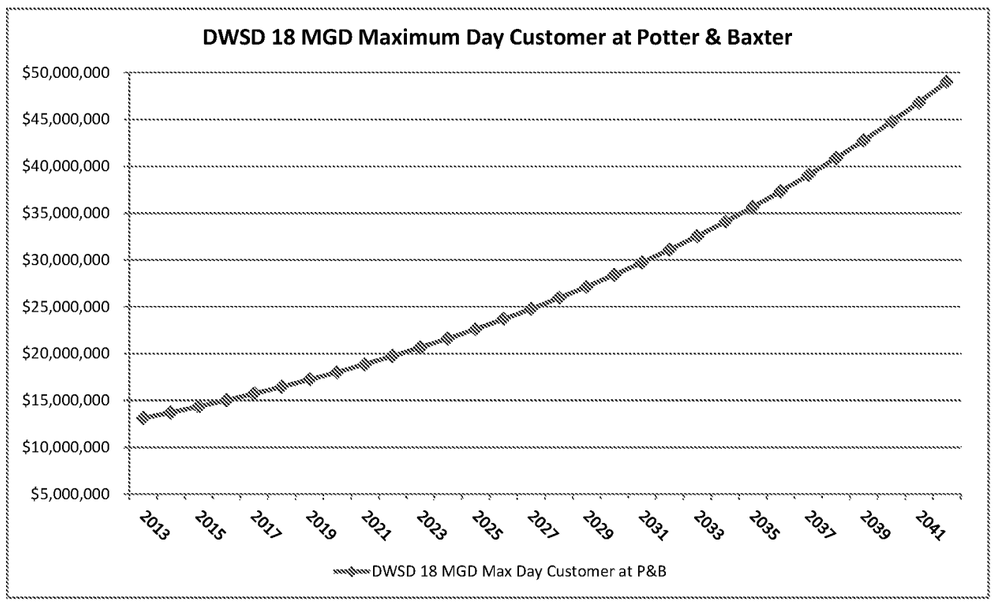
Flint WTP O&M:	120.30	/MCF	$ 3,538,214	/Yr
DWSD:	$ 16.37	/MCF	$ 9,585,642	/Yr

Escalation/Inflation Rate

Flint:	4.51% /Yr
DWSD:	4.7% /Yr

Capital Expenditure

Amount:	$ -			
Reserve:	$ -	0%	Reserve Rate:	0.00%
Amount plus Reserve:	$ -			
Revenue Bond Rate:	5%			
Number of Years:	25			
Annual Cost:	$0			



	Year	Flint WTP O&M	Water Purchase	Revenue Bond Payment	Interest on Reserve	TOTAL
1	2013	$ 3,538,214	9,585,642		-	**$ 13,123,856**
2	2014	$ 3,697,788	10,036,167		-	**$ 13,733,955**
3	2015	$ 3,864,558	10,507,867		-	**$ 14,372,425**
4	2016	$ 4,038,850	11,001,736	-	-	**$ 15,040,586**
5	2017	$ 4,221,002	11,518,818	-	-	**$ 15,739,820**
6	2018	$ 4,411,369	12,060,203	-	-	**$ 16,471,571**
7	2019	$ 4,610,322	12,627,032	-	-	**$ 17,237,354**
8	2020	$ 4,818,247	13,220,503	-	-	**$ 18,038,750**
9	2021	$ 5,035,550	13,841,866	-	-	**$ 18,877,416**
10	2022	$ 5,262,653	14,492,434	-	-	**$ 19,755,087**
11	2023	$ 5,499,999	15,173,578	-	-	**$ 20,673,577**
12	2024	$ 5,748,049	15,886,736	-	-	**$ 21,634,785**
13	2025	$ 6,007,286	16,633,413	-	-	**$ 22,640,699**
14	2026	$ 6,278,215	17,415,183	-	-	**$ 23,693,398**
15	2027	$ 6,561,362	18,233,697	-	-	**$ 24,795,059**
16	2028	$ 6,857,279	19,090,681	-	-	**$ 25,947,960**
17	2029	$ 7,166,543	19,987,943	-	-	**$ 27,154,486**
18	2030	$ 7,489,754	20,927,376	-	-	**$ 28,417,130**
19	2031	$ 7,827,542	21,910,963	-	-	**$ 29,738,505**
20	2032	$ 8,180,564	22,940,778	-	-	**$ 31,121,342**
21	2033	$ 8,549,507	24,018,995	-	-	**$ 32,568,502**
22	2034	$ 8,935,090	25,147,887	-	-	**$ 34,082,977**
23	2035	$ 9,338,063	26,329,838	-	-	**$ 35,667,901**
24	2036	$ 9,759,209	27,567,341	-	-	**$ 37,326,550**
25	2037	$ 10,199,350	28,863,006	-	-	**$ 39,062,355**
	2038	$ 10,659,340	30,219,567	-	-	**$ 40,878,907**
	2039	$ 11,140,076	31,639,886	-	-	**$ 42,779,963**
	2040	$ 11,642,494	33,126,961	-	-	**$ 44,769,455**
	2041	$ 12,167,570	34,683,928	-	-	**$ 46,851,499**
	2042	$ 12,716,328	36,314,073	-	-	**$ 49,030,401**
		$ 216,222,171				

25 Yrs Cummulative
$ 596,916,044

30 Yrs Cummulative
$ 821,226,268

DWSD Worksheet : 12 MGD Maximum Day Customer with Model Contract at Potter & Baxter/Blending with Flint

Capacity

Flint ADD:	4	MGD	535	MCF/Day
DWSD ADD:	8	MGD	1,070	MCF/Day

Annual Volume

Flint:	195,187	MCF	195187.1658
DWSD:	390,374	MCF	
			5895097.471

2013 Cost of Supply

Flint WTP O&M:	$	30.20	/MCF	$ 5,895,097	/Yr
DWSD:	$	16.31	/MCF	$ 6,367,005	/Yr

Escalation/Inflation Rate

Flint:	4.51%	/Yr
DWSD:	4.7%	/Yr

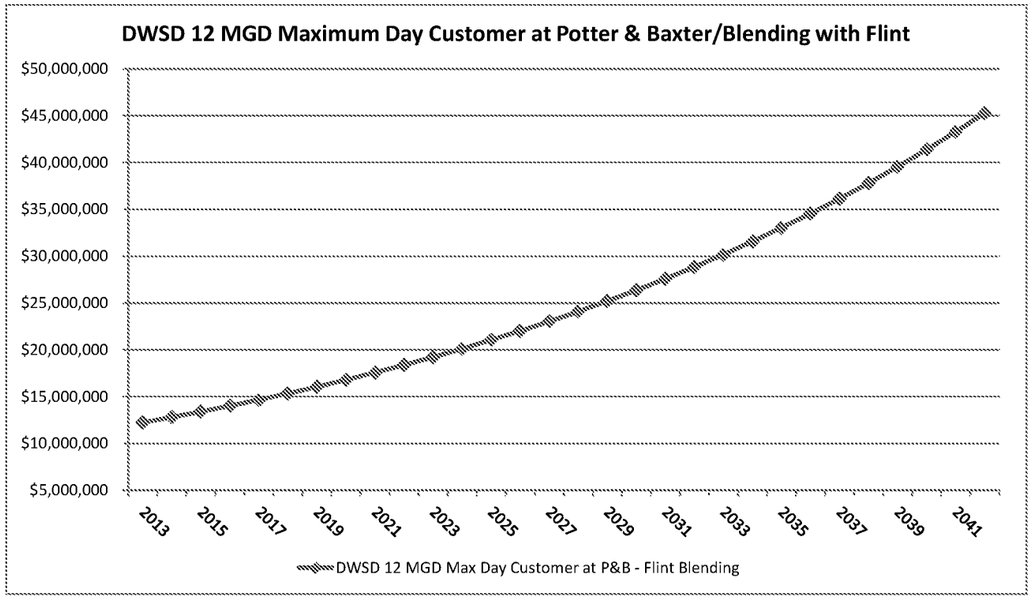
Capital Expenditure

Amount:	$ -			
Reserve:	$ -	0%	Reserve Rate:	0.00%
Amount plus Reserve:	$ -			
Revenue Bond Rate:	5%			
Number of Years:	25			
Annual Cost:	$0			

	Year	Flint WTP O&M	Water Purchase	Revenue Bond Payment	Interest on Reserve	TOTAL
1	2013	$ 5,895,097	6,367,005		-	**$ 12,262,103**
2	2014	$ 6,160,966	6,666,255		-	**$ 12,827,221**
3	2015	$ 6,438,826	6,979,569		-	**$ 13,418,395**
4	2016	$ 6,729,217	7,307,608	-	-	**$ 14,036,825**
5	2017	$ 7,032,705	7,651,066	-	-	**$ 14,683,771**
6	2018	$ 7,349,880	8,010,666	-	-	**$ 15,360,546**
7	2019	$ 7,681,359	8,387,167	-	-	**$ 16,068,527**
8	2020	$ 8,027,789	8,781,364	-	-	**$ 16,809,153**
9	2021	$ 8,389,842	9,194,088	-	-	**$ 17,583,930**
10	2022	$ 8,768,224	9,626,210	-	-	**$ 18,394,434**
11	2023	$ 9,163,671	10,078,642	-	-	**$ 19,242,313**
12	2024	$ 9,576,952	10,552,338	-	-	**$ 20,129,291**
13	2025	$ 10,008,873	11,048,298	-	-	**$ 21,057,171**
14	2026	$ 10,460,273	11,567,568	-	-	**$ 22,027,841**
15	2027	$ 10,932,031	12,111,244	-	-	**$ 23,043,275**
16	2028	$ 11,425,066	12,680,473	-	-	**$ 24,105,538**
17	2029	$ 11,940,336	13,276,455	-	-	**$ 25,216,791**
18	2030	$ 12,478,845	13,900,448	-	-	**$ 26,379,294**
19	2031	$ 13,041,641	14,553,769	-	-	**$ 27,595,410**
20	2032	$ 13,629,819	15,237,796	-	-	**$ 28,867,616**
21	2033	$ 14,244,524	15,953,973	-	-	**$ 30,198,497**
22	2034	$ 14,886,952	16,703,810	-	-	**$ 31,590,762**
23	2035	$ 15,558,354	17,488,889	-	-	**$ 33,047,242**
24	2036	$ 16,260,035	18,310,866	-	-	**$ 34,570,902**
25	2037	$ 16,993,363	19,171,477	-	-	**$ 36,164,840**
	2038	$ 17,759,764	20,072,537	-	-	**$ 37,832,300**
	2039	$ 18,560,729	21,015,946	-	-	**$ 39,576,675**
	2040	$ 19,397,818	22,003,695	-	-	**$ 41,401,513**
	2041	$ 20,272,660	23,037,869			**$ 43,310,528**
	2042	$ 21,186,956	24,120,649			**$ 45,307,605**

25 Yrs Cummulative
$ 554,681,686

30 Yrs Cummulative
$ 762,110,308



DWSD Worksheet : 8 MGD Maximum Day Customer with Model Contract at Potter & Baxter/Blending with Flint

Capacity

Flint ADD:	4	MGD	535	MCF/Day
DWSD ADD:	8	MGD	1,070	MCF/Day

Annual Volume

Flint:	195,187	MCF
DWSD:	390,374	MCF

2013 Cost of Supply

Flint WTP O&M:	$ 30.20	/MCF	$ 5,895,097	/Yr
DWSD:	$ 12.68	/MCF	$ 4,949,947	/Yr

Escalation/Inflation Rate

Flint:	4.51% /Yr
DWSD:	4.7% /Yr

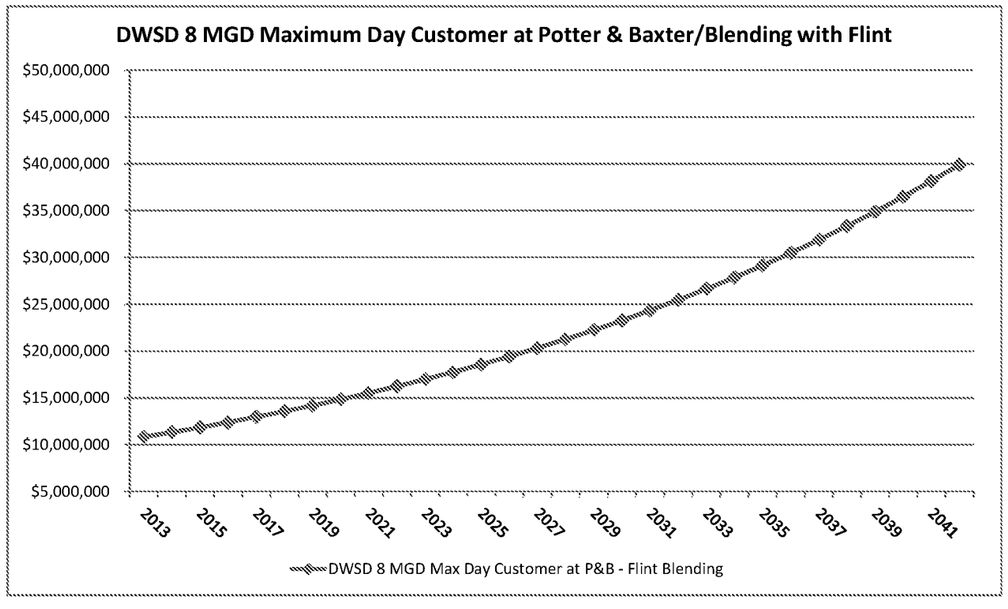
Capital Expenditure

Amount:	$ -			
Reserve:	$ -	0%	Reserve Rate:	0.00%
Amount plus Reserve:	$ -			
Revenue Bond Rate:	5%			
Number of Years:	25			
Annual Cost:	$0			

	Year	Flint WTP O&M	Water Purchase	Revenue Bond Payment	Interest on Reserve	TOTAL
1	2013	$ 5,895,097	4,949,947		-	**$ 10,845,044**
2	2014	$ 6,160,966	5,182,594		-	**$ 11,343,560**
3	2015	$ 6,438,826	5,426,176		-	**$ 11,865,002**
4	2016	$ 6,729,217	5,681,206	-	-	**$ 12,410,423**
5	2017	$ 7,032,705	5,948,223	-	-	**$ 12,980,928**
6	2018	$ 7,349,880	6,227,789	-	-	**$ 13,577,669**
7	2019	$ 7,681,359	6,520,495	-	-	**$ 14,201,855**
8	2020	$ 8,027,789	6,826,959	-	-	**$ 14,854,747**
9	2021	$ 8,389,842	7,147,826	-	-	**$ 15,537,668**
10	2022	$ 8,768,224	7,483,774	-	-	**$ 16,251,997**
11	2023	$ 9,163,671	7,835,511	-	-	**$ 16,999,182**
12	2024	$ 9,576,952	8,203,780	-	-	**$ 17,780,732**
13	2025	$ 10,008,873	8,589,358	-	-	**$ 18,598,230**
14	2026	$ 10,460,273	8,993,057	-	-	**$ 19,453,330**
15	2027	$ 10,932,031	9,415,731	-	-	**$ 20,347,762**
16	2028	$ 11,425,066	9,858,271	-	-	**$ 21,283,336**
17	2029	$ 11,940,336	10,321,609	-	-	**$ 22,261,945**
18	2030	$ 12,478,845	10,806,725	-	-	**$ 23,285,570**
19	2031	$ 13,041,641	11,314,641	-	-	**$ 24,356,282**
20	2032	$ 13,629,819	11,846,429	-	-	**$ 25,476,248**
21	2033	$ 14,244,524	12,403,211	-	-	**$ 26,647,735**
22	2034	$ 14,886,952	12,986,162	-	-	**$ 27,873,114**
23	2035	$ 15,558,354	13,596,512	-	-	**$ 29,154,866**
24	2036	$ 16,260,035	14,235,548	-	-	**$ 30,495,583**
25	2037	$ 16,993,363	14,904,619	-	-	**$ 31,897,982**
	2038	$ 17,759,764	15,605,136	-	-	**$ 33,364,899**
	2039	$ 18,560,729	16,338,577	-	-	**$ 34,899,306**
	2040	$ 19,397,818	17,106,490	-	-	**$ 36,504,308**
	2041	$ 20,272,660	17,910,495			**$ 38,183,155**
	2042	$ 21,186,956	18,752,288			**$ 39,939,245**

25 Yrs Cummulative
$ 489,780,792

30 Yrs Cummulative
$ 672,671,705



DWSD Worksheet : 12 MGD Maximum Day Customer with Model Contract at Imlay/Blending with Flint

Capacity

Flint ADD: 8 MGD 535 MCF/Day
DWSD ADD: 8 MGD 1,070 MCF/Day

Annual Volume

Flint: 195,187 MCF
DWSD: 390,374 MCF

2013 Cost of Supply

Flint WTP O&M: $ 30.20 /MCF $ 5,895,097 /Yr
DWSD: $ 14.38 /MCF $ 5,613,583 /Yr

Escalation/Inflation Rate

Flint: 4.51% /Yr
DWSD: 4.7% /Yr

Capital Expenditure

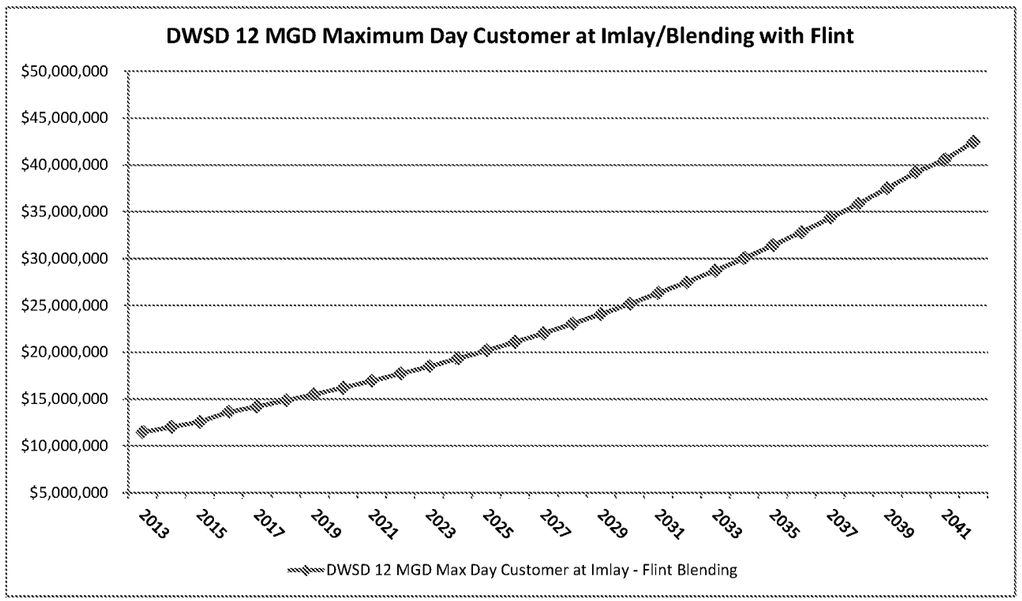
Capital: $ 4,700,000
Bond Issuance (3% of Total): 195,000 Check: 3.0%
3 Years of Capitalized Interest: 975,000 Check: 5.0% /Yr (Bond Interest on Total)
Reserve (10% of Total): 650,000 Check: 10.0%
Total: $ 6,520,000

Revenue Bond Rate:	5%
Number of Years:	25
Annual Cost:	$462,610
Interest on Reserve:	3%

	Year	Flint WTP O&M	Water Purchase	Revenue Bond Payment	Interest on Reserve	TOTAL
1	2013	$ 5,895,097	5,613,583		19,500	**$ 11,489,180**
2	2014	$ 6,160,966	5,877,421		19,500	**$ 12,018,888**
3	2015	$ 6,438,826	6,153,660		19,500	**$ 12,572,986**
4	2016	$ 6,729,217	6,442,882	462,610	19,500	**$ 13,615,209**
5	2017	$ 7,032,705	6,745,698	462,610	19,500	**$ 14,221,512**
6	2018	$ 7,349,880	7,062,745	462,610	19,500	**$ 14,855,735**
7	2019	$ 7,681,359	7,394,694	462,610	19,500	**$ 15,519,164**
8	2020	$ 8,027,789	7,742,245	462,610	19,500	**$ 16,213,144**
9	2021	$ 8,389,842	8,106,131	462,610	19,500	**$ 16,939,082**
10	2022	$ 8,768,224	8,487,119	462,610	19,500	**$ 17,698,452**
11	2023	$ 9,163,671	8,886,013	462,610	19,500	**$ 18,492,794**
12	2024	$ 9,576,952	9,303,656	462,610	19,500	**$ 19,323,718**
13	2025	$ 10,008,873	9,740,928	462,610	19,500	**$ 20,192,910**
14	2026	$ 10,460,273	10,198,751	462,610	19,500	**$ 21,102,134**
15	2027	$ 10,932,031	10,678,093	462,610	19,500	**$ 22,053,234**
16	2028	$ 11,425,066	11,179,963	462,610	19,500	**$ 23,048,139**
17	2029	$ 11,940,336	11,705,421	462,610	19,500	**$ 24,088,867**
18	2030	$ 12,478,845	12,255,576	462,610	19,500	**$ 25,177,531**
19	2031	$ 13,041,641	12,831,588	462,610	19,500	**$ 26,316,339**
20	2032	$ 13,629,819	13,434,673	462,610	19,500	**$ 27,507,602**
21	2033	$ 14,244,524	14,066,102	462,610	19,500	**$ 28,753,736**
22	2034	$ 14,886,952	14,727,209	462,610	19,500	**$ 30,057,271**
23	2035	$ 15,558,354	15,419,388	462,610	19,500	**$ 31,420,852**
24	2036	$ 16,260,035	16,144,099	462,610	19,500	**$ 32,847,245**
25	2037	$ 16,993,363	16,902,872	462,610	19,500	**$ 34,339,345**
	2038	$ 17,759,764	17,697,307	462,610	19,500	**$ 35,900,181**
	2039	$ 18,560,729	18,529,080	462,610	19,500	**$ 37,532,919**
	2040	$ 19,397,818	19,399,947	462,610	19,500	**$ 39,240,875**
	2041	$ 20,272,660	20,311,745			**$ 40,584,404**
	2042	$ 21,186,956	21,266,397			**$ 42,453,353**

25 Yrs Cummulative
$ 529,865,071

30 Yrs Cummulative
$ 725,576,803



DWSD Worksheet : 8 MGD Maximum Day Customer with Model Contract at Imlay/Blending with Flint

Capacity

Flint ADD:	4	MGD	535	MCF/Day	
DWSD ADD:	8	MGD	1,070	MCF/Day	

Annual Volume

Flint:	195,187	MCF
DWSD:	390,374	MCF

2013 Cost of Supply

Flint WTP O&M:	$ 30.20	/MCF	$ 5,895,097	/Yr	
DWSD:	$ 11.11	/MCF	$ 4,337,059	/Yr	

Escalation/Inflation Rate

Flint:	4.51%	/Yr
DWSD:	4.7%	/Yr

Capital Expenditure

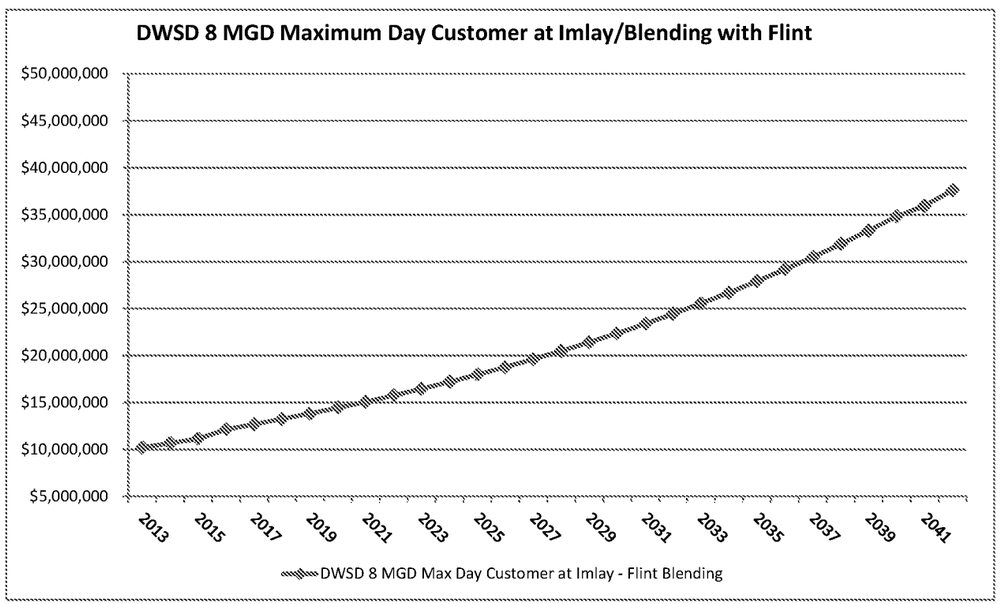
Capital:	$ 4,700,000			
Bond Issuance (3% of Total):	195,000	Check:	3.0%	
3 Years of Capitalized Interest:	975,000	Check:	5.0%	/Yr (Bond Interest on Total)
Reserve (10% of Total):	650,000	Check:	10.0%	
Total:	$ 6,520,000			

Revenue Bond Rate:	5%
Number of Years:	25
Annual Cost:	$462,610
Interest on Reserve:	3%

	Year	Flint WTP O&M	Water Purchase	Revenue Bond Payment	Interest on Reserve	TOTAL
1	2013	$ 5,895,097	4,337,059		19,500	**$ 10,212,656**
2	2014	$ 6,160,966	4,540,901		19,500	**$ 10,682,367**
3	2015	$ 6,438,826	4,754,323		19,500	**$ 11,173,649**
4	2016	$ 6,729,217	4,977,776	462,610	19,500	**$ 12,150,103**
5	2017	$ 7,032,705	5,211,732	462,610	19,500	**$ 12,687,546**
6	2018	$ 7,349,880	5,456,683	462,610	19,500	**$ 13,249,673**
7	2019	$ 7,681,359	5,713,147	462,610	19,500	**$ 13,837,616**
8	2020	$ 8,027,789	5,981,665	462,610	19,500	**$ 14,452,564**
9	2021	$ 8,389,842	6,262,803	462,610	19,500	**$ 15,095,755**
10	2022	$ 8,768,224	6,557,155	462,610	19,500	**$ 15,768,489**
11	2023	$ 9,163,671	6,865,341	462,610	19,500	**$ 16,472,122**
12	2024	$ 9,576,952	7,188,012	462,610	19,500	**$ 17,208,074**
13	2025	$ 10,008,873	7,525,849	462,610	19,500	**$ 17,977,832**
14	2026	$ 10,460,273	7,879,564	462,610	19,500	**$ 18,782,947**
15	2027	$ 10,932,031	8,249,903	462,610	19,500	**$ 19,625,044**
16	2028	$ 11,425,066	8,637,649	462,610	19,500	**$ 20,505,824**
17	2029	$ 11,940,336	9,043,618	462,610	19,500	**$ 21,427,064**
18	2030	$ 12,478,845	9,468,668	462,610	19,500	**$ 22,390,624**
19	2031	$ 13,041,641	9,913,696	462,610	19,500	**$ 23,398,447**
20	2032	$ 13,629,819	10,379,639	462,610	19,500	**$ 24,452,569**
21	2033	$ 14,244,524	10,867,482	462,610	19,500	**$ 25,555,117**
22	2034	$ 14,886,952	11,378,254	462,610	19,500	**$ 26,708,316**
23	2035	$ 15,558,354	11,913,032	462,610	19,500	**$ 27,914,496**
24	2036	$ 16,260,035	12,472,945	462,610	19,500	**$ 29,176,090**
25	2037	$ 16,993,363	13,059,173	462,610	19,500	**$ 30,495,646**
	2038	$ 17,759,764	13,672,954	462,610	19,500	**$ 31,875,828**
	2039	$ 18,560,729	14,315,583	462,610	19,500	**$ 33,319,422**
	2040	$ 19,397,818	14,988,415	462,610	19,500	**$ 34,829,343**
	2041	$ 20,272,660	15,692,871			**$ 35,965,530**
	2042	$ 21,186,956	16,430,436			**$ 37,617,392**

25 Yrs Cummulative
$ 493,063,801

30 Yrs Cummulative
$ 634,795,488

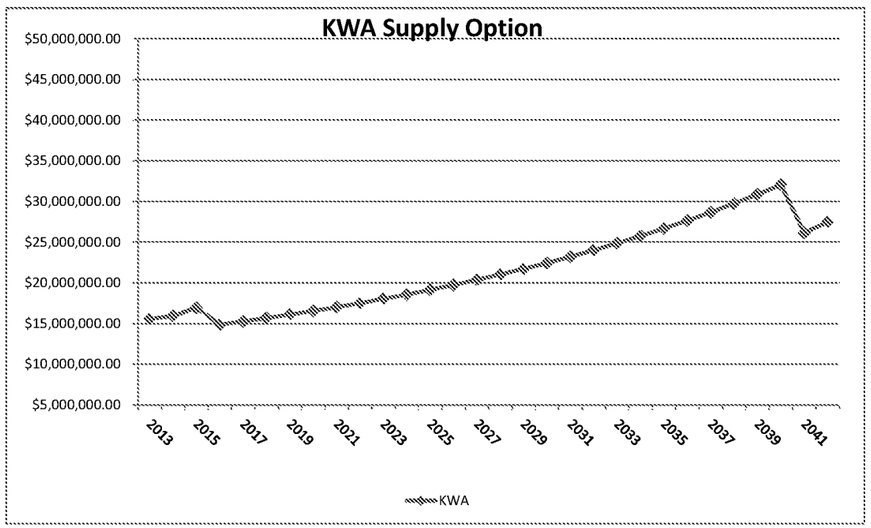


KWA Supply Option Worksheet

KWA 10/31/12 No Overruns

	Year	DWSD & Flint WTP Costs	KWA Entry Fee	KWA Debt service	Flint WTP Debt Service	KWA Operations	Flint WTP Operations with KWA	TOTAL
1	2013	$ 14,413,858	1,162,800					**$ 15,576,658**
2	2014	$ 15,355,135	581,400					**$ 15,936,535**
3	2015	$ 16,365,534	581,400					**$ 16,946,934**
4	2016			6,593,155	572,781	878,869	6,843,344	**$ 14,888,149**
5	2017			6,593,155	572,781	922,812	7,185,511	**$ 15,274,260**
6	2018			6,593,155	572,781	968,953	7,544,787	**$ 15,679,676**
7	2019			6,593,155	572,781	1,017,401	7,922,026	**$ 16,105,363**
8	2020			6,593,155	572,781	1,068,271	8,318,127	**$ 16,552,334**
9	2021			6,593,155	572,781	1,121,684	8,734,034	**$ 17,021,654**
10	2022			6,593,155	572,781	1,177,769	9,170,735	**$ 17,514,440**
11	2023			6,593,155	572,781	1,236,657	9,629,272	**$ 18,031,865**
12	2024			6,593,155	572,781	1,298,490	10,110,736	**$ 18,575,162**
13	2025			6,593,155	572,781	1,363,414	10,616,273	**$ 19,145,623**
14	2026			6,593,155	572,781	1,431,585	11,147,086	**$ 19,744,607**
15	2027			6,593,155	572,781	1,503,164	11,704,441	**$ 20,373,541**
16	2028			6,593,155	572,781	1,578,322	12,289,663	**$ 21,033,921**
17	2029			6,593,155	572,781	1,657,239	12,904,146	**$ 21,727,320**
18	2030			6,593,155	572,781	1,740,101	13,549,353	**$ 22,455,390**
19	2031			6,593,155	572,781	1,827,106	14,226,821	**$ 23,219,862**
20	2032			6,593,155	572,781	1,918,461	14,938,162	**$ 24,022,559**
21	2033			6,593,155	572,781	2,014,384	15,685,070	**$ 24,865,390**
22	2034			6,593,155	572,781	2,115,103	16,469,323	**$ 25,750,362**
23	2035			6,593,155	572,781	2,220,858	17,292,789	**$ 26,679,584**
24	2036			6,593,155	572,781	2,331,901	18,157,429	**$ 27,655,266**
25	2037			6,593,155	572,781	2,448,496	19,065,300	**$ 28,679,733**
	2038			6,593,155	572,781	2,570,921	20,018,565	**$ 29,755,422**
	2039			6,593,155	572,781	2,699,467	21,019,494	**$ 30,884,897**
	2040			6,593,155	572,781	2,834,440	22,070,468	**$ 32,070,845**
	2041					2,976,162	23,173,992	**$ 26,150,154**
	2042					3,124,970	24,332,691	**$ 27,457,662**

25 Yrs Cummulative	30 Yrs Cummulative
$ 503,456,186	$ 649,775,166



KWA Supply Option Worksheet

KWA-1

David Guastella:
Flint buys water from DWSD for three years during KWA construction at current rate (assume 5% increase each year)

David Guastella:
Highlighted portion is Flint's Entry Fee to KWA

Capacity

Flint ADD:	12	MGD	1,604	MCF/Day
KWA ADD:	12	MGD	1,604	MCF/Day

Annual Volume

Flint:	585,561	MCF
KWA:	585,561	MCF

2016 Cost of Supply

Flint WTP O&M:		13.51	/MCF	$ 7,913,118 /Yr
KWA:	$	1.50	/MCF	$ 878,869 /Yr

Escalation/Inflation Rate

Flint:	4.51% /Yr
KWA:	5.0% /Yr

Capital Expenditure

David Guastella:
Assumes Bond Issuance and Reserves are not included

Capital:	$ 272,421,558			
Bond Issuance (2.25% of Total):	8,440,000	Check:	2.25%	
3 Years of Capitalized Interest:	56,088,000	Check:	5.0%	/Yr (Bond Interest on Total)
Reserve (10% of Total):	37,500,000	Check:	10.0%	
Total:	$ 374,361,558			
Flint's Share (30%)	$ 112,308,467			

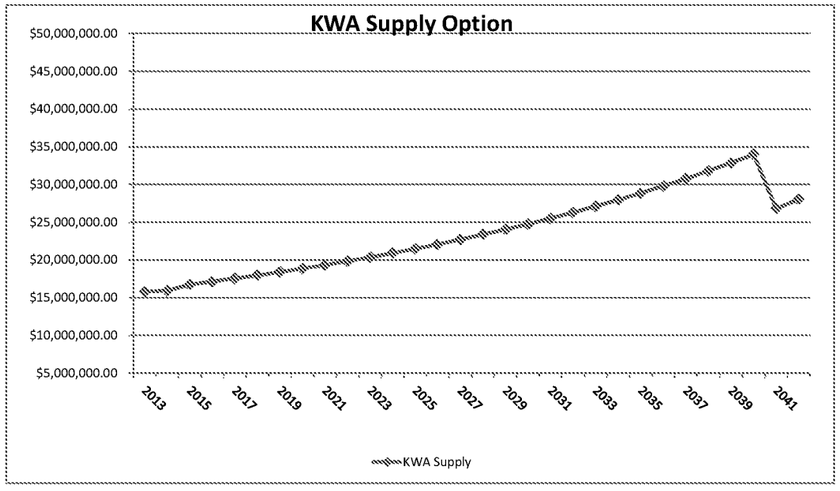
Revenue Bond Rate:	5%
Number of Years:	25
Annual Cost:	$7,968,562
Interest on Reserve:	3%

David Guastella:
Increased by 3%/Yr to 2012 $'s

Capital:	$ 7,758,362			
Bond Issuance (3% of Total):	240,000	Check:	2.25%	
3 Years of Capitalized Interest:	1,608,000	Check:	5.0%	/Yr (Bond Interest on Total)
Reserve (10% of Total):	1,070,000	Check:	10.0%	
Total:	$ 10,668,362			

Revenue Bond Rate:	5%
Number of Years:	25
Annual Cost:	$756,946
Interest on Reserve:	3%

	Year	Flint WTP O&M	Water Purchase	KWA Revenue Pre-bond Entry Fee & Bond Payment	Flint Revenue Bond Payment	Interest on Reserve	TOTAL
1	2013	***$ 3,538,214***	***11,461,700***	1,162,800		369,600	**$ 15,793,114**
2	2014	***$ 3,697,788***	***12,034,785***	581,400		369,600	**$ 15,944,373**
3	2015	***$ 3,864,558***	***12,636,524***	581,400		369,600	**$ 16,712,882**
4	2016	$ 7,913,118	878,869	7,968,562	756,946	369,600	**$ 17,147,896**
5	2017	$ 8,270,000	922,812	7,968,562	756,946	369,600	**$ 17,548,721**
6	2018	$ 8,642,977	968,953	7,968,562	756,946	369,600	**$ 17,967,838**
7	2019	$ 9,032,775	1,017,401	7,968,562	756,946	369,600	**$ 18,406,084**
8	2020	$ 9,440,153	1,068,271	7,968,562	756,946	369,600	**$ 18,864,332**
9	2021	$ 9,865,904	1,121,684	7,968,562	756,946	369,600	**$ 19,343,497**
10	2022	$ 10,310,857	1,177,769	7,968,562	756,946	369,600	**$ 19,844,533**
11	2023	$ 10,775,876	1,236,657	7,968,562	756,946	369,600	**$ 20,368,441**
12	2024	$ 11,261,868	1,298,490	7,968,562	756,946	369,600	**$ 20,916,266**
13	2025	$ 11,769,779	1,363,414	7,968,562	756,946	369,600	**$ 21,489,101**
14	2026	$ 12,300,596	1,431,585	7,968,562	756,946	369,600	**$ 22,088,089**
15	2027	$ 12,855,352	1,503,164	7,968,562	756,946	369,600	**$ 22,714,425**
16	2028	$ 13,435,129	1,578,322	7,968,562	756,946	369,600	**$ 23,369,359**
17	2029	$ 14,041,053	1,657,239	7,968,562	756,946	369,600	**$ 24,054,200**
18	2030	$ 14,674,305	1,740,101	7,968,562	756,946	369,600	**$ 24,770,313**
19	2031	$ 15,336,116	1,827,106	7,968,562	756,946	369,600	**$ 25,519,130**
20	2032	$ 16,027,775	1,918,461	7,968,562	756,946	369,600	**$ 26,302,144**
21	2033	$ 16,750,627	2,014,384	7,968,562	756,946	369,600	**$ 27,120,919**
22	2034	$ 17,506,080	2,115,103	7,968,562	756,946	369,600	**$ 27,977,092**
23	2035	$ 18,295,605	2,220,858	7,968,562	756,946	369,600	**$ 28,872,371**
24	2036	$ 19,120,737	2,331,901	7,968,562	756,946	369,600	**$ 29,808,546**
25	2037	$ 19,983,082	2,448,496	7,968,562	756,946	369,600	**$ 30,787,486**
	2038	$ 20,884,319	2,570,921	7,968,562	756,946	369,600	**$ 31,811,148**
	2039	$ 21,826,201	2,699,467	7,968,562	756,946	369,600	**$ 32,881,577**
	2040	$ 22,810,563	2,834,440	7,968,562	756,946	369,600	**$ 34,000,912**
	2041	$ 23,839,320	2,976,162				**$ 26,815,482**
	2042	$ 24,914,473	3,124,970				**$ 28,039,443**



25 Yrs Cummulative
$ 553,731,153

30 Yrs Cummulative
$ 707,279,715

KWA Supply Option Worksheet

KWA-2

Capacity

Flint ADD:	12	MGD	1,604	MCF/Day
KWA ADD:	12	MGD	1,604	MCF/Day

Annual Volume

Flint:	585,561	MCF
KWA:	585,561	MCF

2016 Cost of Supply

Flint WTP O&M:	$ 13.51	/MCF	$ 7,913,118	/Yr
KWA:	$ 1.50	/MCF	$ 878,869	/Yr

Escalation/Inflation Rate

Flint:	4.51% /Yr
KWA:	5.0% /Yr

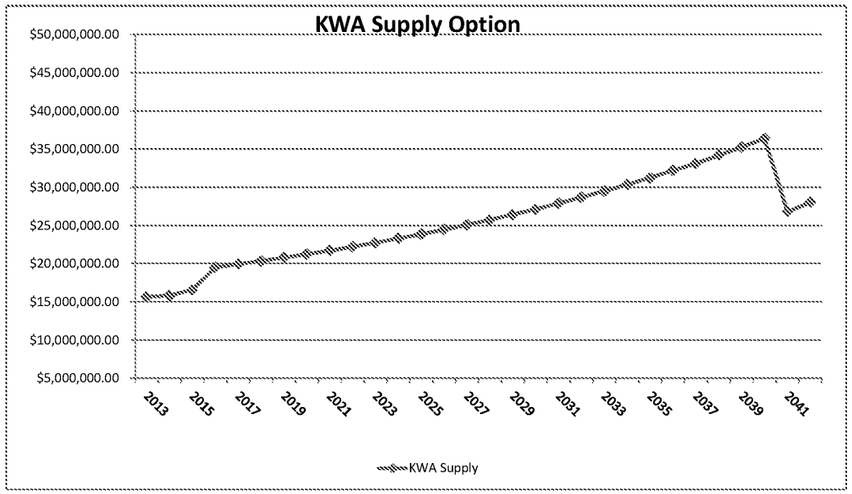
Capital Expenditure

Capital:	$ 357,578,060		
Bond Issuance (2.25% of Total):	11,650,000	Check:	2.25%
3 Years of Capitalized Interest:	78,000,000	Check:	5.0% /Yr (Bond Interest on Total)
Reserve (10% of Total):	49,000,000	Check:	10.0%
Total:	$ 491,628,060		
Flint's Share (30%)	$ 147,488,418		

Revenue Bond Rate:	5%
Number of Years:	25
Annual Cost:	$10,464,666
Interest on Reserve:	3%

Capital:	$ 7,758,362		
Bond Issuance (3% of Total):	240,000	Check:	2.25%
3 Years of Capitalized Interest:	1,600,000	Check:	5.0% /Yr (Bond Interest on Total)
Reserve (10% of Total):	1,070,000	Check:	10.0%
Total:	$ 10,668,362		

Revenue Bond Rate:	5%
Number of Years:	25
Annual Cost:	$756,946
Interest on Reserve:	3%



	Year	Flint WTP O&M	Water Purchase	KWA Revenue Pre-bond Entry Fee & Bond Payment	Flint Revenue Bond Payment	Interest on Reserve	TOTAL
1	2013	***$ 3,538,214***	***11,461,700***	1,162,800		473,100	**$ 15,689,614**
2	2014	***$ 3,697,788***	***12,034,785***	581,400		473,100	**$ 15,840,873**
3	2015	***$ 3,864,558***	***12,636,524***	581,400		473,100	**$ 16,609,382**
4	2016	$ 7,913,118	878,869	10,464,666	756,946	473,100	**$ 19,540,500**
5	2017	$ 8,270,000	922,812	10,464,666	756,946	473,100	**$ 19,941,325**
6	2018	$ 8,642,977	968,953	10,464,666	756,946	473,100	**$ 20,360,442**
7	2019	$ 9,032,775	1,017,401	10,464,666	756,946	473,100	**$ 20,798,688**
8	2020	$ 9,440,153	1,068,271	10,464,666	756,946	473,100	**$ 21,256,936**
9	2021	$ 9,865,904	1,121,684	10,464,666	756,946	473,100	**$ 21,736,101**
10	2022	$ 10,310,857	1,177,769	10,464,666	756,946	473,100	**$ 22,237,137**
11	2023	$ 10,775,876	1,236,657	10,464,666	756,946	473,100	**$ 22,761,045**
12	2024	$ 11,261,868	1,298,490	10,464,666	756,946	473,100	**$ 23,308,870**
13	2025	$ 11,769,779	1,363,414	10,464,666	756,946	473,100	**$ 23,881,705**
14	2026	$ 12,300,596	1,431,585	10,464,666	756,946	473,100	**$ 24,480,693**
15	2027	$ 12,855,352	1,503,164	10,464,666	756,946	473,100	**$ 25,107,029**
16	2028	$ 13,435,129	1,578,322	10,464,666	756,946	473,100	**$ 25,761,963**
17	2029	$ 14,041,053	1,657,239	10,464,666	756,946	473,100	**$ 26,446,804**
18	2030	$ 14,674,305	1,740,101	10,464,666	756,946	473,100	**$ 27,162,917**
19	2031	$ 15,336,116	1,827,106	10,464,666	756,946	473,100	**$ 27,911,733**
20	2032	$ 16,027,775	1,918,461	10,464,666	756,946	473,100	**$ 28,694,748**
21	2033	$ 16,750,627	2,014,384	10,464,666	756,946	473,100	**$ 29,513,523**
22	2034	$ 17,506,080	2,115,103	10,464,666	756,946	473,100	**$ 30,369,696**
23	2035	$ 18,295,605	2,220,858	10,464,666	756,946	473,100	**$ 31,264,975**
24	2036	$ 19,120,737	2,331,901	10,464,666	756,946	473,100	**$ 32,201,150**
25	2037	$ 19,983,082	2,448,496	10,464,666	756,946	473,100	**$ 33,180,090**
	2038	$ 20,884,319	2,570,921	10,464,666	756,946	473,100	**$ 34,203,752**
	2039	$ 21,826,201	2,699,467	10,464,666	756,946	473,100	**$ 35,274,181**
	2040	$ 22,810,563	2,834,440	10,464,666	756,946	473,100	**$ 36,393,516**
	2041	$ 23,839,320	2,976,162				**$ 26,815,482**
	2042	$ 24,914,473	3,124,970				**$ 28,039,443**

25 Yrs Cummulative

$ 606,057,940

30 Yrs Cummulative

$ 766,784,313

From: Eisner, Jennifer (DHHS)
Sent: Thursday, November 19, 2015 3:07 PM
To: Wurfel, Sara (GOV); Murray, David (GOV); Brown, Jessica (GOV); Kennedy, Jordan (GOV)
Cc: Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ); Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS)
Subject: Flint EBL Data
Attachments: 2015-11-18 - Flint Lead FINAL.pdf; Flint EBL Data PR.docx; Flint Water Talking Points 111915 V3.docx

Good afternoon:

Attached, please find the blood lead level test results for Flint zip codes 48501-48507, as well as a corresponding press release and talking points. With your approval and edits, we are planning to notify external partners tomorrow at 9:30 a.m. then post the report on www.michigan.gov/flintwater and issue the press release at 10 a.m.

Please let us know if you have any questions or concerns.

Thanks and best,

Jennifer Eisner
Public Information Officer
Michigan Department of Health and Human Services
Office: 517-241-2112 or EisnerJ@michigan.gov
Cell: PPI

Michigan Department of Health and Human Services (MDHHS)
Blood Lead Level Test Results for Flint Zip Codes 48501-48507
Summary as of October 30, 2015

Executive Summary

This report is generated by MDHHS to track Blood Lead Level test results in Flint, Michigan.

- Counts on this report include both capillary and venous blood tests. People who have had multiple tests are counted only once.
- Since 10/1/2015, an additional 963 people have been tested in Flint.
- Continued testing efforts by Genessee County Health Department, MDHHS and local medical personnel have identified 18 children with blood lead levels greater than or equal to 5µg/dL since 10/1/2015.
- Three percent of the children younger than 6 years old tested since 10/1/2015 have had blood lead levels greater than or equal to 5µg/dL.
- Additional testing is ongoing. Counts will vary as new results are added.

Number of People Tested for Lead in Flint

Total number of people tested for lead from 1/1/2013 to 4/14/2014	4657
Total number of people tested for lead from 4/15/2014 to 9/30/2015	5017
Total number of people tested for lead since 10/1/2015:	**963**

Children Younger than 6 Years Old with Blood Lead Levels (BLL) ≥5µg/dL

Total number of children tested for lead from 1/1/2013 to 4/14/2014	3811
Number of child BLL test results ≥5µg/dL from 1/1/2013 to 4/14/2014	112
Total number of children tested for lead from 4/15/2014 to 9/30/2015:	4156
Number of child BLL test results ≥5µg/dL from 4/15/2014 to 9/30/2015:	181
Total number of children tested for lead since 10/1/2015:	**385**
Number of child BLL test results ≥5µg/dL since 10/1/2015:	**12**

Adults (18 Years or Older) with Blood Lead Levels (BLL) ≥5µg/dL

Total number of adults tested for lead from 1/1/2013 to 4/14/2014	170
Number of adult BLL test results ≥5µg/dL from 1/1/2013 to 4/14/2014	22
Total number of adults tested for lead from 4/15/2014 to 9/30/2015:	207
Number of adult BLL test results ≥5µg/dL from 4/15/2014 to 9/30/2015:	13
Total number of adults tested for lead since 10/1/2015:	**289**
Number of adult BLL test results ≥5µg/dL since 10/1/2015:	**6**

Children 6 to 17 Years Old with Blood Lead Levels (BLL) ≥5µg/dL

Total number of children tested for lead from 1/1/2013 to 4/14/2014	676
Number of child BLL test results ≥5µg/dL from 1/1/2013 to 4/14/2014	5
Total number of children tested for lead from 4/15/2014 to 9/30/2015:	654
Number of child BLL test results ≥5µg/dL from 4/15/2014 to 9/30/2015:	7
Total number of children tested for lead since 10/1/2015:	**289**
Number of child BLL test results ≥5µg/dL since 10/1/2015:	**6**

Blood Lead Levels in Flint Talking Points
November 18, 2015

Blood Lead Level Testing Results

- The Michigan Department of Health and Human Services is releasing a report regarding blood lead levels in Flint children and adults in zip codes 48501-48507.
- The purpose of the report is to inform residents about blood lead level testing efforts in Flint and provides cumulative total numbers.
- It is not intended to be a technical report but a technical description, and further analysis of the data in the report is underway.
- The data in the report include the total number of tests conducted and the total number of elevated blood lead levels ≥5µg/dL (micrograms per deciliter), broken down by date and age ranges.
    - Specifically, the current report breaks down the data by the 16 months prior to the switch in water source for Flint (January 1, 2013 through April 14, 2014), to the 17 months after the switch (April 15, 2014 through September 30, 2015), and after the lead exposure prevention campaign was initiated by the State in Flint October 1, 2015 to October 30, 2015. These numbers will continue to be updated.
    - The report also breaks down the number of tests and elevated blood lead levels by children younger than 6, children ages 6-17, and adults 18 years and older.
        - Lead exposure for children younger than 6 is of particular concern because they are more sensitive to the effects of lead and tend to absorb more than older children and adults.
- Data in the report includes both capillary and venous blood tests. People who have had multiple tests are counted only once.
- 963 people were tested in Flint between October 1, 2015, and October 30, 2015, 18 children 17 years of age or younger had elevated blood lead levels. Six adults over the age of 18 were identified with elevated blood lead levels during this time as well.
- With these testing results, MDHHS is working closely with the Genesee County Health Department to conduct case management to ensure that these families are receiving the follow up care they need - including additional blood testing and a home investigation to identify and help reduce the potential for additional lead exposure in their environment.
- In addition to this report, MDHHS has zip code level data available by quarter for 48503-48507 by request. Zip codes 48501-48502 do have some cases, but the numbers are too small to release by quarter.

Water Filters and Replacement Filters

- Our first action item is to work closely with our public and private partners to provide water filters to Flint residents and MDHHS clients.
- To meet this priority, the governor identified one million dollars in state funding to purchase water filters for Flint residents.
- The Brita SAFF-100 filters being distributed by the department and GCCARD do meet the NSF/ANSI 53 standards for drinking water treatment units.
- The Brita faucet filtration system we are distributing are National Sanitation Foundation certified to reduce lead in drinking water.
- Free water filters and replacement cartridges are available to current Michigan Department of Health and Human Services clients and Flint residents who are on the Flint water system at four locations:
    - Flint residents who are not current MDHHS clients should visit one of two Genesee County Community Action Resource Department offices to obtain a filter.
        - at 2727 Lippincott and 601 North Saginaw in Flint
    - Current MDHHS clients in the city of Flint should visit their local MDHHS office:
        - At 125 E. Union St. or 4809 Clio Road
- Staff will be onsite at all four locations from 9 a.m. to 4 p.m., Monday through Friday, to distribute filters and assist residents who have questions about proper installation.
- Given the questions and concerns regarding the change in water source in Flint, MDHHS authorized the use of emergency services funding to provide water filters for MDHHS clients receiving assistance in the city of Flint.
- This funding will support active Family Independence Program (FIP), Food Assistance Program (FAP), Child Development and Care (CDC), State Disability Assistance (SDA), State Disability Assistance (SDA), or Social Security Insurance (SSI) recipients so that they can obtain filters that are National Sanitation Foundation (NSF) certified to remove lead and ANSI Standard 53.
- MDHHS has also posted an instructional video on the MDHHS YouTube channel to help residents properly install water filters, and to demonstrate how to replace the original filter when it expires.
    - https://www.youtube.com/watch?v=plsOvmH 0
- MDHHS currently serves approximately 25,000 households in Flint.

Background Information

- Initial analysis of MDHHS data found that blood lead levels of children in Flint have followed an expected seasonal trend; due to small numbers further analysis was initiated.

- While this analysis of blood lead levels in Flint as a whole remains true, after a comprehensive and detailed review down to the zip code level, we have found that the state analysis is consistent with that presented by Hurley.
- Director Lyon is working closely with DEQ and the administration to take active steps to reduce all potential lead exposures in Flint and across the state.
- Our Chief Medical Executive has been in communication with the lead investigator at Hurley Children's Hospital, and we continue to work with Hurley, the city of Flint, local and state leaders to verify and analyze data trends.
- Zip code-level data does show that there has been an increase in elevated childhood blood lead levels in specific communities.
    - This does not conclusively mean that the water source change is the sole cause of the increase, but data does show an association.
    - There is an increased proportion of children with elevated blood levels in several zip codes, particularly 03 and 04. These appear to have increased over the last 1.5 years.
    - Lead exposure can occur from a number of different sources (such as paint, gasoline, solder, and consumer products) and through different pathways (such as air, food, water, dust, and soil).
    - Although there are several exposure sources, lead-based paint is still the most widespread and dangerous high-dose source of lead exposure for young children in the US and Michigan.
- We reviewed MDHHS statewide data using the same methodology used by Hurley, looking at our numbers by zip code and age ranges, and filtering out non-Flint children.
- Routine surveillance of blood lead levels does not analyze data down to the zip code level. Detailed analysis like this occurs when there is reason to focus in on precise locations or populations.
- MDHHS is working closely with the Michigan Department of Environmental Quality, Hurley Children's Hospital, the Genesee County Health Department, and community organizations to initiate further action steps.
- We understand that cost may be a barrier to following the recommendations for drinking water, which is why NSF-certified filters are being distributed to residents on the Flint water system free of charge.
- MDHHS is recommending that residents follow the Public Health Advisory issued by the Genesee County Health Department, as well as take further steps to reduce exposures to all forms of lead in and around their homes.

MDHHS Stats and Facts

- 'High Risk' Zip codes (48503 and 48504)

- Blood lead level rates among children under six years of age in the high risk zip codes (48503, 48504) were 2.7 times higher than the rest of Genesee County before the switch to Flint River Water.
- After the switch to Flint River Water, rates in the high risk Zip codes were 3.2 times that of the rest of Genesee County.

- Other Zip codes in Flint
  - Rates of elevated blood lead levels among children under six years of age in other parts of the city of Flint were 2 times that of the rest of Genesee County before the switch to Flint River Water.
  - The magnitude of the elevated rate remained roughly the same during the period after the water source switch.
- Lead abatement through MDHHS was federally funded up until FY14 when Michigan began providing additional funds to abate homes.
- In FY14, $1.25M General Fund was added. In FY15, General Fund was bumped up to $1.75M and FY16, General Fund remains at $1.75M.

Reducing and Removing Lead Exposure

- Use only cold filtered water from the tap for drinking, cooking, and making baby formula. Hot water is more likely to contain higher levels of lead. The lead in household water usually comes from the service line that connects your house to the water main or the plumbing in your house, not from the local water supply.
- In housing built before 1978, it can be assumed that the paint has lead unless tests show otherwise.
- Make sure your child does not have access to peeling paint or chewable surfaces painted with lead-based paint.
- Children and pregnant women should not be present in housing built before 1978 that is undergoing renovation. They should not participate in activities that disturb old paint or in cleaning up paint debris after work is completed.
- Create barriers between living/play areas and lead sources. Until environmental clean-up is completed, you should clean and isolate all sources of lead.
  - Close and lock doors to keep children away from chipping or peeling paint on walls. You can also apply temporary barriers such as contact paper or duct tape, to cover holes in walls or to block children's access to other sources of lead.
- Regularly wash children's hands and toys. Hands and toys can become contaminated from household dust or exterior soil. Both can be lead sources.
- Regularly wet-mop floors and wet-wipe window components. Because household dust is a major source of lead, you should wet-mop floors and wet-wipe horizontal surfaces every 2-3 weeks.

    - Windowsills and wells can contain high levels of leaded dust. They should be kept clean. If feasible, windows should be kept shut to prevent abrasion of painted surfaces or opened from the top sash.
- Take off shoes when entering the house to prevent bringing lead-contaminated soil in from outside.
- Prevent children from playing in bare soil; if possible, provide them with sandboxes. Plant grass on areas of bare soil or cover the soil with grass seed, mulch, or wood chips, if possible.
    - Until the bare soil is covered, move play areas away from bare soil and away from the sides of the house. If you have a sandbox, cover the box when not in use to prevent cats from using it as a litter box. That will help protect children from exposure to animal waste.
- Avoid using makeup, containers, cookware, or tableware to store or cook foods or liquids that are not shown to be lead-free.
- Remove recalled toys and toy jewelry immediately from children.
- Shower and change clothes after finishing a task that involves working with lead-based products such as stained glass, making bullets, or using a firing range.

If possible, shower and change before returning home if your job requires you to work with or around lead. These jobs can include painting, plumbing, and some factory work.

WIC Children

- There are 855 infants participating in WIC in Flint.
- We are working with partners at the United Way to ensure that WIC families have access to water filters and bottled water.
- In homes with infants on WIC, if the household has documentation from an official source documenting unsanitary water supply issues, that family may be eligible to receive ready-to-feed formula. Families should contact WIC to see if they are eligible.
- Each household will be considered on an individual basis.
- WIC cannot cover bottled water.

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- While this analysis of blood lead levels in Flint as a whole remains true, after a comprehensive and detailed review down to the zip code level, we have found that the state analysis is consistent with that presented by Hurley.
- Director Lyon is working closely with DEQ and the administration to take active steps to reduce all potential lead exposures in Flint and across the state.
- Our Chief Medical Executive has been in communication with the lead investigator at Hurley Children's Hospital, and we continue to work with Hurley, the city of Flint, local and state leaders to verify and analyze data trends.
- Zip code-level data does show that there has been an increase in elevated childhood blood lead levels in specific communities.
    - This does not conclusively mean that the water source change is the sole cause of the increase, but data does show an association.
    - There is an increased proportion of children with elevated blood levels in several zip codes, particularly 03 and 04. These appear to have increased over the last 1.5 years.
    - Lead exposure can occur from a number of different sources (such as paint, gasoline, solder, and consumer products) and through different pathways (such as air, food, water, dust, and soil).
    - Although there are several exposure sources, lead-based paint is still the most widespread and dangerous high-dose source of lead exposure for young children in the US and Michigan.
- We reviewed MDHHS statewide data using the same methodology used by Hurley, looking at our numbers by zip code and age ranges, and filtering out non-Flint children.
- Routine surveillance of blood lead levels does not analyze data down to the zip code level. Detailed analysis like this occurs when there is reason to focus in on precise locations or populations.
- MDHHS is working closely with the Michigan Department of Environmental Quality, Hurley Children's Hospital, the Genesee County Health Department, and community organizations to initiate further action steps.
- We understand that cost may be a barrier to following the recommendations for drinking water, which is why NSF-certified filters are being distributed to residents on the Flint water system free of charge.
- MDHHS is recommending that residents follow the Public Health Advisory issued by the Genesee County Health Department, as well as take further steps to reduce exposures to all forms of lead in and around their homes.

MDHHS Stats and Facts

- 'High Risk' Zip codes (48503 and 48504)

    - Blood lead level rates among children under six years of age in the high risk zip codes (48503, 48504) were 2.7 times higher than the rest of Genesee County before the switch to Flint River Water.
    - After the switch to Flint River Water, rates in the high risk Zip codes were 3.2 times that of the rest of Genesee County.
- Other Zip codes in Flint
    - Rates of elevated blood lead levels among children under six years of age in other parts of the city of Flint were 2 times that of the rest of Genesee County before the switch to Flint River Water.
    - The magnitude of the elevated rate remained roughly the same during the period after the water source switch.
- Lead abatement through MDHHS was federally funded up until FY14 when Michigan began providing additional funds to abate homes.
- In FY14, $1.25M General Fund was added. In FY15, General Fund was bumped up to $1.75M and FY16, General Fund remains at $1.75M.

Reducing and Removing Lead Exposure

- Use only cold filtered water from the tap for drinking, cooking, and making baby formula. Hot water is more likely to contain higher levels of lead. The lead in household water usually comes from the service line that connects your house to the water main or the plumbing in your house, not from the local water supply.
- In housing built before 1978, it can be assumed that the paint has lead unless tests show otherwise.
- Make sure your child does not have access to peeling paint or chewable surfaces painted with lead-based paint.
- Children and pregnant women should not be present in housing built before 1978 that is undergoing renovation. They should not participate in activities that disturb old paint or in cleaning up paint debris after work is completed.
- Create barriers between living/play areas and lead sources. Until environmental clean-up is completed, you should clean and isolate all sources of lead.
    - Close and lock doors to keep children away from chipping or peeling paint on walls. You can also apply temporary barriers such as contact paper or duct tape, to cover holes in walls or to block children's access to other sources of lead.
- Regularly wash children's hands and toys. Hands and toys can become contaminated from household dust or exterior soil. Both can be lead sources.
- Regularly wet-mop floors and wet-wipe window components. Because household dust is a major source of lead, you should wet-mop floors and wet-wipe horizontal surfaces every 2-3 weeks.

    - Windowsills and wells can contain high levels of leaded dust. They should be kept clean. If feasible, windows should be kept shut to prevent abrasion of painted surfaces or opened from the top sash.
- Take off shoes when entering the house to prevent bringing lead-contaminated soil in from outside.
- Prevent children from playing in bare soil; if possible, provide them with sandboxes. Plant grass on areas of bare soil or cover the soil with grass seed, mulch, or wood chips, if possible.
    - Until the bare soil is covered, move play areas away from bare soil and away from the sides of the house. If you have a sandbox, cover the box when not in use to prevent cats from using it as a litter box. That will help protect children from exposure to animal waste.
- Avoid using makeup, containers, cookware, or tableware to store or cook foods or liquids that are not shown to be lead-free.
- Remove recalled toys and toy jewelry immediately from children.
- Shower and change clothes after finishing a task that involves working with lead-based products such as stained glass, making bullets, or using a firing range.

If possible, shower and change before returning home if your job requires you to work with or around lead. These jobs can include painting, plumbing, and some factory work.

WIC Children

- There are 855 infants participating in WIC in Flint.
- We are working with partners at the United Way to ensure that WIC families have access to water filters and bottled water.
- In homes with infants on WIC, if the household has documentation from an official source documenting unsanitary water supply issues, that family may be eligible to receive ready-to-feed formula. Families should contact WIC to see if they are eligible.
- Each household will be considered on an individual basis.
- WIC cannot cover bottled water.

From: Eisner, Jennifer (DHHS)
Sent: Friday, November 20, 2015 3:01 PM
To: Wurfel, Sara (GOV); Murray, David (GOV); Kennedy, Jordan (GOV); Brown, Jessica (GOV)
Cc: Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS); Wheaton, Bob (DHHS)
Subject: MDHHS Weekly Update

Press Releases:

- TBD - Flint EBL Data
- Monday, November 23 – Family Health History
- Tuesday, November 24 – Lung Cancer Awareness Month
- Monday, December 30 – Michigan 4x4 Grants Awarded

Speaking Engagements:

- Monday, November 23 – Chief Deputy Director Becker is speaking at the Bureau of Community Services staff meeting
- Tuesday, November 24 – Director Lyon is speaking at the National Adoption Day event at the Hall of Justice
- Tuesday, December 1 – Director Lyon is Speaking at a symposium on maternal health and mortality at the Henry Center

Jennifer Eisner
Public Information Officer
Michigan Department of Health and Human Services
Office: 517-241-2112 or EisnerJ@michigan.gov
Cell: PPI

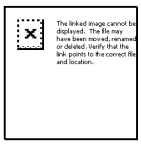
From: Murray, David (GOV)
Sent: Tuesday, November 24, 2015 10:27 AM
To: Wurfel, Sara (GOV)
Subject: Fwd: Updated blood lead level talking points
Attachments: image001.jpg

Sent from my iPhone

Begin forwarded message:

> **From:** "Minicuci, Angela (DHHS)" <MinicuciA@michigan.gov>
> **Date:** November 24, 2015 at 10:25:49 AM EST
> **To:** "Murray, David (GOV)" <MurrayD1@michigan.gov>, "Eisner, Jennifer (DHHS)" <EisnerJ@michigan.gov>
> **Subject: RE: Updated blood lead level talking points**
>
> We asked our staff to run the numbers again so we had the most recent data since we're getting close to releasing, so I'm revising the release with the current numbers and will send that back your way in a moment.
>
> Angela
>
> ---
>
> **From:** Minicuci, Angela (DHHS)
> **Sent:** Tuesday, November 24, 2015 8:57 AM
> **To:** Murray, David (GOV) <MurrayD1@michigan.gov>; Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>
> **Subject:** RE: Updated blood lead level talking points
>
> Updates highlighted in the attached!
>
> Angela
>
> ---
>
> **From:** Murray, David (GOV)
> **Sent:** Tuesday, November 24, 2015 8:48 AM
> **To:** Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>; Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>
> **Subject:** Updated blood lead level talking points

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray


The linked image cannot be displayed. The file may have been moved, renamed or deleted. Verify that the link points to the correct file and location.

From: Eisner, Jennifer (DHHS)
Sent: Tuesday, November 24, 2015 6:14 PM
To: Wurfel, Sara (GOV); Murray, David (GOV)
Cc: Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS)
Subject: Comms Plan
Attachments: Comms Plan - Flint EBL Data Summary.docx

Sara and Dave:

Attached please find a proposed comms plan for your review – we will update the document with dates as the timeline comes together. Please feel free to give me a call with any questions, edits or suggestions.

Thank you,

Jennifer Eisner
Public Information Officer
Michigan Department of Health and Human Services
Office: 517-241-2112 or EisnerJ@michigan.gov
Cell: PPI

Flint EBL Data Summary

Communications Plan

Purpose

To release elevated blood lead level data for the city of Flint and communicate the summary to our partners in the community as well as local and state media. The report is intended to inform residents about blood lead level testing efforts in Flint and provide preliminary cumulative numbers on an ongoing basis.

To Do

- Epi discussion regarding timeframes on one-page summary
- Epi discussion regarding historical data for context
- Update press release to include information about home environmental investigations

External outreach

- Genesee County Health Department – Dr. Eden Wells
- Dr. Mona Hannah-Attisha – Dr. Eden Wells
- Task Force Members – Dr. Eden Wells
- Legislative notifications – Elizabeth Hertel

Announcement

- Coordinate timing with DEQ, Governor's Office
- Post summary report on the www.michigan.gov/flintwater website
- Post press release on MDHHS site
- Issue press release

Media outreach

- Interviews with Dr. Eden Wells
    - Ron Fonger, MLive
    - Kristi Tanner, Detroit Free Press
    - Robin Erb, Detroit Free Press
    - Steve Carmody, Michigan Radio

MDHHS Contacts – Office Number 517-241-2112

Geralyn Lasher, cell – PPI
Angela Minicuci, cell – PPI
Jennifer Eisner, cell – PPI

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Tuesday, December 01, 2015 5:37 PM
Subject: PRESS RELEASE: Mayor Weaver Unveils 100 Day Plan
Attachments: Mayor Weaver 100 Day Plan.pdf

For Immediate Release

Mayor Karen Weaver Unveils 100 Day Plan

Flint, Michigan – December 1, 2015 – Mayor Karen Weaver today laid out the plan for her next 100 days in office at a morning press briefing held in the lobby of Flint City Hall. The Mayor's plan for the next 100 days will focus mainly on addressing issues related to water and lead, but will also include building a vigorous community engagement program, implementation of the City's Master Plan and increased attention to youth initiatives. The plan also lists restoring "Home Rule" to City government as a key objective.

"During the course of my campaign for this esteemed office, I made several pledges to the citizens of this community," said Mayor Weaver. "First and foremost I pledged that I would work tirelessly to resolve the City's water problems. I also made a pledge to work diligently to restore democracy and home rule, in addition to giving voice, truth and transparency to our residents." While there are other items the Mayor is interested in addressing, the next 100 days will focused on those areas.

In dealing with the water issues in Flint, Mayor Weaver is working toward having the City declared a Federal Disaster Area as her first item. "We are faced with the largest public health and public service threat in the history of the City," said the Mayor. "It will require resources far beyond our capabilities to remediate our water infrastructure problems." Mayor Weaver has already begun meeting with representatives and senators at both the State and Federal levels. In addition to the Federal Declaration, the Mayor is also seeking to restructure the City's Water Advisory Committee to include mayoral appointments, implementing a lead poisoning mitigation program in conjunction with local medical centers and expanding the Keep the Water Flowing program to include additional aid agencies.

Community engagement and the reestablishment of trust in local government will be vigorously sought by Mayor Weaver, as laid out in the 100 day plan. Beginning this month, the Mayor will conduct monthly Town Hall Meetings in each of the City's nine wards. In addition, the Mayor plans to attend block club and

neighborhood association meetings frequently, continue the Mayor's "Open Office" time on Wednesday mornings to hear from constituents and create a "Mobile City Hall" to provide direct access to the Mayor.

Another key to the Mayor's outreach strategy will be to meet frequently with various community stakeholders to gather input and reach out to educational institutions in an effort to gain insight into the problems facing Flint Through relationships with local colleges and universities, the Mayor hopes to develop surveys for such issues as specific as determining the scope of problems with the City's street lights and more general such as identifying citizen needs. Work is also being done through a university partnership to digitize old paper records of underground pipe materials to better track the location of lead-based service lines throughout the City.

Youth engagement is another part of the outreach strategy of the 100 day plan. Mayor Weaver is seeking to establish *Operation HYRE* (Helping Youth Reach Employment) in which she will call upon local businesses and vendors to provide summer employment opportunities for 500 City youth in 2016. The hope is to expand that year to year. In addition, the Mayor is seeking to form a Youth Advisory Council to provide opportunities for engagement in local government with students.

Mayor Weaver acknowledged that the ambitious scope of her plan will be rely on a spirit of cooperation within the community. "I am working every day to improve our quality of life," the Mayor stated. "Flint's stability depends on our collective effort to provide economic opportunity, promote healthy lifestyles, and ensure community prosperity. With our legendary Flintstone spirit we will prevail."

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI (Cell)
jlorenz@cityofflint.com

Dr. Karen Weaver
Mayor

Natasha L. Henderson
City Administrator

Jason Lorenz
Public Information Officer
Office: (810) 237-2039
Cell: PPI
jlorenz@cityofflint.com

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–CONTINUE–

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–CONTINUE–

Dr. Karen Weaver
Mayor

Natasha L. Henderson
City Administrator

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–END–

From: Wurfel, Brad (DEQ)
Sent: Monday, September 21, 2015 7:24 PM
To: Wurfel, Sara (GOV)
Subject: Fwd: STATEMENT: Congressman Dan Kildee Calls For Additional "Independent and Scientific" Testing to Ensure Safety of Flint's Water

Sent from my iPhone

Begin forwarded message:

From: "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
Date: September 21, 2015 at 4:54:25 PM EDT
To: "Murray, David (GOV)" <MurrayD1@michigan.gov>
Subject: RE: STATEMENT: Congressman Dan Kildee Calls For Additional "Independent and Scientific" Testing to Ensure Safety of Flint's Water

Let's see if Eric concurs…

From: Murray, David (GOV)
Sent: Monday, September 21, 2015 4:53 PM
To: Wurfel, Brad (DEQ)
Subject: Re: STATEMENT: Congressman Dan Kildee Calls For Additional "Independent and Scientific" Testing to Ensure Safety of Flint's Water

Well done!

Sent from my iPhone

On Sep 21, 2015, at 4:51 PM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:

Heads up. Flint journal asked for comment on Kildee statement.

b

From: Wurfel, Brad (DEQ)
Sent: Monday, September 21, 2015 4:48 PM
To: 'Ronald Fonger'

Subject: RE: STATEMENT: Congressman Dan Kildee Calls For Additional "Independent and Scientific" Testing to Ensure Safety of Flint's Water

"The state much appreciated the opportunity to explain its role in regulating drinking water systems – in particular, the fact that the water supply presently meets all state and federal water quality standards but that homes with lead service connections and lead plumbing are and always have been imparting some part-per-billion of lead, which is a concern.

"We were pleased to conclude the meeting with the shared commitment to bring a local, state and federal partnership to address this issue through the City's technical advisory team. Given issues like the proposed federal grant forgiveness or the call for system-wide replacement of home lead connections to address the long-term issue, the leadership of our congressional delegation will be of critical importance."

b

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713
PPI cell

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, September 21, 2015 3:13 PM
To: Wurfel, Brad (DEQ)
Subject: FW: STATEMENT: Congressman Dan Kildee Calls For Additional "Independent and Scientific" Testing to Ensure Safety of Flint's Water

Brad: Do you want to comment?

I just got this and have to file something by 5-530.

Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

.

From: Rivard, Mitchell [mailto:Mitchell.Rivard@mail.house.gov]
Sent: Monday, September 21, 2015 3:02 PM
To: Rivard, Mitchell
Subject: STATEMENT: Congressman Dan Kildee Calls For Additional "Independent and Scientific" Testing to Ensure Safety of Flint's Water

FOR IMMEDIATE RELEASE
Monday, September 21, 2015

Contact: Mitchell Rivard, 202-595-4885, mitchell.rivard@mail.house.gov

Congressman Dan Kildee Calls For Additional "Independent and Scientific" Testing to Ensure Safety of Flint's Water

FLINT – Congressman Dan Kildee (MI-05) today, as part of his continued efforts to get answers regarding recent lead levels recorded in the city of Flint's water system, met with the Michigan Department of Environmental Quality (DEQ) and the Environmental Protection Agency (EPA) in Lansing.

The meeting followed a letter sent last week by Congressman Kildee posing various questions about recent lead levels in the water. In response to Congressman Kildee's letter, the DEQ and EPA invited Congressman Kildee and other local, state and federal elected officials to attend today's briefing in Lansing.

After the meeting today, Congressman Kildee issued the following statement:

"After meeting with the EPA and DEQ, it is clear to me that immediate independent and scientific testing is necessary to determine the safety of Flint's water. So far, the city, DEQ and EPA have not adequately answered my questions on their testing methods to ensure the safety of Flint's water.

"So far, I have been given no reason to have confidence in the current testing results. For example, it is unclear if homes sampled also took part in previous tests, which could have shown trends in water quality.

"I call on the Michigan Department of Environmental Quality and the Environmental Protection Agency, in coordination with the city of Flint, to work together to conduct additional independent and scientific testing of Flint's water. Additional testing must be expanded from its current scope to include more homes. It must also factor in the most at-risk homes in Flint.

"Flint residents deserve absolute transparency when it comes to the quality of their water. Additionally the city, DEQ and EPA must work together to ensure the immediate safety of Flint's drinking water, including any temporary relief until a long-term solution can be completed."

###

From: Wyant, Dan (DEQ)
Sent: Wednesday, September 23, 2015 7:33 AM
To: Muchmore, Dennis (GOV); Wurfel, Brad (DEQ); Murray, David (GOV); Wurfel, Sara (GOV)
Cc: Hollins, Harvey (GOV)
Subject: RE: DEQ Flint water docs

The Mayor of Flint has a technical advisory. DEQ and EPA are sending our experts. The advisory has outside experts. The group will looks at the data and offer their recommendations and opinions.

Dan Wyant, Director
Department of Environmental Quality
517-284-6700 (New Number)

From: Muchmore, Dennis (GOV)
Sent: Tuesday, September 22, 2015 3:16 PM
To: Wurfel, Brad (DEQ); Murray, David (GOV); Wurfel, Sara (GOV); Wyant, Dan (DEQ)
Cc: Hollins, Harvey (GOV)
Subject: RE: DEQ Flint water docs

Should we ask one of our own Professors to comment on this article and the testing...

From: Wurfel, Brad (DEQ)
Sent: Tuesday, September 22, 2015 8:13 AM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Subject: Fwd: DEQ Flint water docs

Some necessary info RE Flint. One is a Q&A we developed. Other is from DHHS -- spreadsheet on blood lead levels in kids.
Call me with questions. Thanks.

b

Brad Wurfel

Communications Director

Michigan Department of Environmental Quality

517-284-6713

PPI cell

From: Wurfel, Brad (DEQ)
Sent: Thursday, October 01, 2015 2:07 PM
To: Wurfel, Sara (GOV)
Subject: Re: Genesee Co Board of Commissioners press conference

We need to get the media advisory on the wire asap. My phone is blowing up here. Please advise.

Sent from my iPhone

On Oct 1, 2015, at 1:49 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

> Urging declaration Gov to declare state of emergency
>
> **Genesee county board sets press conference discussing Flint's water crisis**
> http://www.mlive.com/news/flint/index.ssf/2015/10/genesee_county_board_to_hold_p.html
>
> Sent from my iPhone

From: Tommasulo, Karen (DEQ)
Sent: Thursday, October 01, 2015 4:15 PM
To: Minicuci, Angela (DHHS); Eisner, Jennifer (DHHS); Wurfel, Sara (GOV); Murray, David (GOV)
Subject: media advisory
Attachments: 151001. Media advisory.docx

Importance: High

Here's the media advisory we're ready to ship out. We're planning to send to our entire list. Would you like to send to your lists as well?

Karen Tommasulo
Public Information Officer
Michigan Department of Environmental Quality
517-284-6716 | 517-599-5733
tommasulok@michigan.gov

Oct. 1, 2015

Michigan leaders to announce action plan for Flint drinking water

Friday, Oct. 2 at 1:30 p.m.
Local, state and federal leaders will host a press conference to announce a comprehensive action plan for addressing drinking water concerns in Flint. Participants will include:

- Harvey Hollins, Director of the Office of Urban Initiatives for Gov. Rick Snyder
- Dan Wyant, Director for the Michigan Department of Environmental Quality
- Nick Lyon, Director for the Michigan Department of Health and Human Services
- Dr. Eden Wells, Chief Medical Executive for the Michigan Department of Health and Human Services
- Dayne Walling, Mayor of Flint
- Other local, state and federal officials

Location:
Kettering University, Innovation Center
1300 Bluff St.
Flint, MI 48504

This is a media event open to credentialed news media only. Media who plan to attend this event should RSVP by noon Friday. Contact Rosemarie Olszewski at 517-284-6700 or olszewskir@michigan.gov.

From: Tommasulo, Karen (DEQ)
Sent: Thursday, October 01, 2015 4:28 PM
To: Pallone, Maggie (DEQ); Minicuci, Angela (DHHS); Eisner, Jennifer (DHHS); Hertel, Elizabeth (DHHS); Wurfel, Brad (DEQ); Wurfel, Sara (GOV); Murray, David (GOV); Thelen, Mary Beth (DEQ); Wyant, Dan (DEQ); Paciorek, Josh (GOV); Lasher, Geralyn (DHHS)
Subject: talking points
Attachments: 151001. Talking points.docx

Here's the talking points we've been working from. Feel free to add DHHS' info.

Karen Tommasulo
Public Information Officer
Michigan Department of Environmental Quality
517-284-6716 | 517-599-5733
tommasulok@michigan.gov

Flint Drinking Water Action Plan
Talking Points

Overall Messaging

- Repeated testing shows the water leaving Flint's drinking water system is safe to drink and meets all federal guidelines, including lead.
- After the switch the Flint River, the compliance testing protocol yielded results of 6 ppb in December 2014 and 11 ppb in June 2015. Both results were below the federal action level of 15 ppb.
- However, we recognize some residents experience higher levels of lead in the water that comes out of their faucets because of lead plumbing in the home, and that's a concern.
- Out of an abundance of caution, we want to address the needs of all Flint families, and so we have developed an action plan that includes both short- and long-term solutions.
- The state plan focuses on increasing water testing, offering additional precautions for families, and providing long-term solutions to address the city's water infrastructure.

Messaging regarding the action plan

The city and the state are working together to gather more data to ensure the water that leaves the treatment plant as well as the water that arrives in Flint homes is safe for all residents.

- **Immediately test Flint public schools to ensure that drinking water is safe. Testing will also be available at no cost to any other school in Flint.**
    - Although Flint's drinking water meets all federal requirements, the state wants to take extra steps to ensure that drinking water is safe for the city's children.
    - The state will fund this testing (about $30,000) at no cost to the city or the local schools, and make the results publicly available.

- **Expand health exposure testing of individual residences.**
    - To double-check its data as well as provide residents with an additional layer of assurance, the DEQ will conduct more tests at Flint properties.
    - The Technical Advisory Committee will determine the scope of this expanded testing.

- **Offer water testing at no cost to Flint residents to assure water is safe.**
    - Although all testing indicates water in the city of Flint meets all federal standards, we understand some residents are concerned.
    - To ensure water in individual homes is safe, free water testing is available to all Flint residents.
    - We encourage anyone with a concern to get their water tested.
    - Contact the city water department to have your water tested.

- **Begin optimizing corrosion controls in the Flint drinking water system.**

- A fully optimized corrosion control system can help coat the inside of pipes to minimize the amount of lead that enters the drinking water after it leaves the treatment plant.
- This is a helpful step that can help minimize lead system-wide, and we're pleased the city is moving to take this step.
- If asked: This was not initially required because a fully optimized corrosion control system is not federally required in many water systems. Even today, since Flint is meeting all federal standards, this fully optimized system is not required. However, to address public concerns and ensure every possible precaution is taken, the city is moving forward with installing this corrosion control system.

- **Convene a "Safe Drinking Water Technical Advisory Committee" to ensure the best technology, practices and science are being utilized, and add an expert from the EPA's Office of Research and Development to the group.**
  - The Safe Drinking Water Technical Advisory Committee will meet Oct. 7 to discuss fully optimizing the corrosion control system, expanding testing of at-risk properties, and other topics.
  - Tom Burke, the Deputy Assistant Administrator of EPA's Office of Research and Development as well as the EPA's Science Advisor, will participate on the committee. Prior to joining EPA, he held prominent positions at the Johns Hopkins Bloomberg School of Public Health and founded the Johns Hopkins Risk Sciences and Public Policy Institute. He brings substantial expertise, and we're pleased he is able join the committee.

- **Accelerate water system improvements to address replacement of lead service lines.**
  - Regardless of the drinking water source – whether it be DWSD, the Flint River or Lake Huron – the only permanent fix for lead is to replace all 18,000 of the private lead service lines in the city. These are the lines on private property that lead from the curb to individual homes.
  - This is a problem in communities statewide, and one we want to address with a long-term solution.
  - The state and EPA are working together to find a way for the city to access Drinking Water Revolving Loan funds for the work.

- **Expedite completion of Karegnondi Water Authority.**
  - The move to the Flint River was always a temporary measure until the connection to the KWA and to Lake Huron was completed.
  - This is the ultimate goal of the venture, and the state and locals will work together to speed up completion of the connection.

- **Governor Snyder names Dr. Eden Wells as Flint Drinking Water Public Health Advisor.**
  - Dr. Wells is the Director for the Preventive Medicine Residency at the University of Michigan School of Public Health in Ann Arbor as well as the Chief Medical Executive for MDHHS.

- She brings years of experience in epidemiology and preventative medicine to the issue, and we're thrilled to have her expertise.
- Dr. Wells will coordinate with Hurley Medical Center to share data on blood lead levels in children, as well as address other emerging issues.

- **Provide water filters to residents of Flint.**
  - As an additional precaution, water filters will be available to low-income families.
  - This provides another safeguard to ensure everyone in the city of Flint has access to clean drinking water that they feel confident drinking.

- **Expand a comprehensive lead education initiative.**
  - Lead plumbing is common in homes built prior to 1986, and anyone in the state with lead pipes in their home can take some extra precautions to minimize lead in their drinking water.
  - It takes time for lead to accumulate in drinking water from plumbing, and so flushing your pipes prior to using them can minimize your exposure.
    - To flush your pipes, run the water until it's as cold as it will go. This can take as little as 5 to 30 seconds if you have recently flushed the toilet or otherwise used water in your home, or as long as 2 to 5 minutes if you have not used any water in hours.
    - In the city of Flint, running the water for 5 minutes only costs about 3-16 cents, depending on your faucet.
  - Additionally, more lead gets into hot water than cold water. Use only cold water for drinking, cooking and making baby formula.

From: Tommasulo, Karen (DEQ)
Sent: Thursday, October 01, 2015 4:34 PM
To: Murray, David (GOV); Wurfel, Sara (GOV); Wurfel, Brad (DEQ); Minicuci, Angela (DHHS); Eisner, Jennifer (DHHS); Lasher, Geralyn (DHHS); Pallone, Maggie (DEQ)
Subject: news release
Attachments: 151001. News release.docx

Here's the news release. Please send me any changes.

We're hoping to get a quote from Nick, as well as contact info on how people can get a water filter.

Karen Tommasulo
Public Information Officer
Michigan Department of Environmental Quality
517-284-6716 | 517-599-5733
tommasulok@michigan.gov

Oct. 2, 2015

For More Information:
Sara Wurfel or Dave Murray
Brad Wurfel, 517-284-6713, wurfelb@michigan.gov
Angela Minicuci

Michigan leaders announce action plan for Flint drinking water

Local, state and federal leaders today announced a comprehensive action plan for drinking water in Flint, designed to address both the short- and long-term needs of residents.

The action plan focuses on increasing water testing, offering additional precautions for families with lead plumbing in their homes, and providing long-term solutions to address the city's water infrastructure.

"We are deeply concerned by the lead results we are seeing in parts of Flint," Snyder said. "Although we know the water leaving Flint's drinking water system is safe to drink, some families with lead plumbing on their property experience higher levels of lead in the water that comes out of their faucets. We are concerned for those families, and we created this action plan to address their immediate needs as well as the long-term needs of all Flint residents."

The city and the state also are working together to gather more data to ensure the water that leaves the treatment plant as well as the water that arrives in Flint homes is safe for all residents. The plan includes:

- Immediately test Flint public schools to ensure that drinking water is safe. Testing also will be available at no cost to any other school in Flint.
- Expand health exposure testing of individual residences.
- Offer water testing at no cost to Flint residents to assure water is safe.
- Begin optimizing corrosion controls in the Flint drinking water system.

- Convene a "Safe Drinking Water Technical Advisory Committee" to ensure the best technology, practices and science are being utilized, and add an expert from the EPA's Office of Research and Development to the group.
- Accelerate water system improvements to address replacement of lead service lines.
- Expedite completion of Karegnondi Water Authority.
- Gov. Rick Snyder names Dr. Eden Wells as the Flint Drinking Water Public Health Advisor.
- Provide water filters to residents of Flint.
- Expand a comprehensive lead education initiative.

Local, state and federal leaders announced the plan at a press conference today at Kettering University's Innovation Center in Flint. Participants included:

- Harvey Hollins, Director of Snyder's Office of Urban Initiatives
- Dan Wyant, Director of the Michigan Department of Environmental Quality
- Nick Lyon, Director for the Michigan Department of Health and Human Services
- Dr. Eden Wells, Flint Drinking Water Public Health Adviser
- Dayne Walling, Mayor of Flint

"This action plan offers concrete steps we will take in a local, state and federal partnership to ensure all Flint residents have safe water to drink," Wyant said. "The DEQ will work closely with the city to gather further data to ensure the water that leaves Flint's system as well as the water that arrives in Flint homes is safe to drink."

To have your water tested, call 810-787-6537 and press 1, or email flintwater@cityofflint.com. For more information, visit www.michigan.gov/flintwater.

From: Wurfel, Brad (DEQ)
Sent: Thursday, October 01, 2015 4:34 PM
To: Lynch, James
Cc: Lasher, Geralyn (DHHS); Wurfel, Sara (GOV)
Subject: RE: Hey

Jim:

"State officials will be in Flint tomorrow to announce a plan to address public concerns about drinking water quality in Flint. We recognize there is widespread confusion and concern in the city, and we look forward to presenting a plan for action and addressing questions."

b

From: Lynch, James [mailto:JLynch@detroitnews.com]
Sent: Thursday, October 01, 2015 3:19 PM
To: Wurfel, Brad (DEQ)
Subject: Hey

Looking for a comment out of your office regarding this call for the EPA to step in to the Flint situation.

For Immediate Release

Press Contact: Margie Kelly, mkelly@nrdc.org, 312-651-7935, Rana Elmir, ACLU of Michigan relmir@aclumich.org, 313-578-6816

GROUPS PETITION EPA FOR EMERGENCY RESPONSE TO

FLINT, MI DRINKING WATER CONTAMINATION

City and state agencies have failed to fix the public health crisis that imperils children's health

CHICAGO (October 1, 2015) – In response to the ongoing drinking water crisis in Flint, Michigan, a coalition of local citizens and national groups petitioned the Environmental Protection Agency (EPA) today to take emergency action to secure safe, lead-free water for the City's children and families.

Flint-based Coalition for Clean Water, the American Civil Liberties Union of Michigan, and the Natural Resources Defense Council joined the petition to trigger the EPA to launch a comprehensive federal response to the ongoing crisis. Under the Safe Drinking Water Act, the EPA is empowered to stop "imminent and substantial endangerment to human health" such as the elevated lead levels in Flint's drinking water.

The petition urges that EPA immediately order the City and Michigan DEQ to reconnect Flint's water system with water from the Detroit Water and Sewerage Department, and to provide Flint residents with an alternative, free source of safe drinking water that meets EPA standards, among other requests.

"Neither the City of Flint nor the State of Michigan is doing enough to fix the problem of lead in our drinking water. As evidenced by the ongoing poisoning of the children of Flint, it's time for the EPA to take immediate action to provide us

with a safe water source," said LeeAnne Walters, a concerned parent from Flint and member of the Water You Fighting For, one of the organizations petitioning the EPA. "The city and state need to test for lead and copper as intended by the federal lead and copper rule," Walters added.

Highly corrosive water in the Flint River, the source of the City's drinking water, has been flowing through lead service lines in Flint's water system for more than a year. A medical study has confirmed that the number of children living in Flint with health-threatening elevated blood lead levels has risen since the City switched its water source. One study of Flint children under age five found that the proportion of children living in Flint with elevated blood levels has *doubled* since the City changed its drinking water source. The statistics are worse for younger children; those under fifteen months old had lead levels elevated 2.5 times greater after the switch to Flint River water.

The City of Flint and the state Department of Environmental Quality (DEQ) have been made aware of tap water monitoring results showing shockingly high lead levels in homes served by the City's drinking water system for months, but neither has taken the action necessary to meaningfully address the problem. There also appear to be serious issues with how the City was testing for lead in a way that appears to downplay the extent of the problem.

"Americans rightly believe that the water coming out of their taps should be safe, not exquisitely toxic. For more than a year, lead-contaminated drinking water has been flowing through Flint's pipes, faucets, and fountains. If the City and State will not address the issue, the EPA should step in to protect kids' health immediately," said Henry Henderson, Midwest Director for the Natural Resources Defense Council.

"Flint city officials, state-appointed emergency managers and the Michigan Department of Environmental Quality have all failed monumentally in their duty to provide the people of Flint with clean, safe drinking water. Now that the truth is revealed, further action is imperative," said Kary L. Moss, ACLU of Michigan executive director. "The devastating revelations from independent researchers, as well as our own nearly year-long investigation, demand an immediate, effective and comprehensive response. The EPA, along with and city officials, must exercise their full authority to guarantee that the people of Flint are protected from the hazardous water now flowing into their homes. The first step should be to overturn the emergency manager order and remove the Flint River as the city's source of water."

There is no safe level of lead exposure. The toxic effects of lead on virtually every system in the body, and particularly on the developing brains of young children, are well documented. It can also contribute to high blood pressure and other health problems in adults. Even low levels of lead in the blood have been shown to affect IQ, ability to pay attention, and academic achievement, effects that are irreversible.

Until Flint restores a safe drinking water source that meets EPA standards, residents are advised to take the following steps:

- Flush faucets by running water for a minimum of five (5) minutes prior to consumption;
- Use only cold water from taps for drinking and cooking, as warm or hot water is more likely to contain higher levels of lead;
- Install and use water filters that are certified to remove lead by NSF International (labeled as meeting "NSF Standard 53" for lead removal), and regularly change the filter cartridges; and
- Use only filtered or bottled water to prepare baby formula and food. Children, pregnant or nursing women should also use filtered or bottled water for drinking and cooking.

In addition, residents should consider taking the following additional steps where possible:

- Remove and clean individual faucet aerators, as lead particles and sediment can collect in the aerator screen located at the faucets;
- Contact a licensed plumber to replace any household plumbing that may contain lead; and

? Flush cold water taps after installing any new household pipes or fixtures.

From: Wurfel, Brad (DEQ)
Sent: Friday, October 02, 2015 8:30 AM
To: Thelen, Mary Beth (DEQ); Murray, David (GOV); Wurfel, Sara (GOV); Muchmore, Dennis (GOV)
Subject: RE: FW: [DEQ] Michigan leaders to announce action plan for Flint drinking water

Yep, this should be discussed.
b

From: Thelen, Mary Beth (DEQ)
Sent: Friday, October 02, 2015 7:35 AM
To: Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ)
Cc: Pallone, Maggie (DEQ)
Subject: FW: FW: [DEQ] Michigan leaders to announce action plan for Flint drinking water
Importance: High

Brad and Karen,
Director wants to discuss when you arrive.
Thanks.

From: Dayne Walling [mailto:dwalling@cityofflint.com]
Sent: Thursday, October 01, 2015 9:23 PM
To: Thelen, Mary Beth (DEQ); Wyant, Dan (DEQ)
Subject: Re: FW: [DEQ] Michigan leaders to announce action plan for Flint drinking water

Thank you. And here is a list of diverse leaders I recommend be invited to attend as space allows in addition to the federal and state legislators, Hollins's contacts and any state personnel or counterparts in Flint/Genesee

City Council President Josh Freeman, jfreeman@cityofflint.com 810-397-3797
City Council Vice-President Wantwaz Davis wdavis@cityofflint.com 810-391-7060
City Council Public Works Chairperson Jackie Poplar 810-397-3205
City Administrator Natasha Henderson nhenderson@cityofflint.com 810-766-7346
City of Flint Director of Public Works Howard Croft hcroft@cityofflint.com 810-766-7346
County Commission Chairman Jamie Curtis jcurtis@co.genesee.mi.us 810-444-6171
County Commission Vice-Chairman Bryant Nolden bnolden@co.genesee.mi.us 810-252-5170
County Drain Commissioner/KWA CEO Jeff Wright jwright@co.genesee.mi.us 810-287-1925
Flint Schools Superintendent Bilal Tawwab btawwab@flintschools.org 810-760-1000
GISD Superintendent Lisa Hagel (810) 591-4402 lhagel@geneseeisd.org
United Way CEO Jamie Gaskin (lead local partner on filters) jgaskin@unitedwaygenesee.org 810-240-0297
Greater Flint Health Coalition CEO Kirk Smith, ksmith@flint.org 810-877-5309
Flint & Genesee Chamber of Commerce CEO Tim Herman therman@flintandgenesee.org 810-691-5734
CS Mott Foundation Chairman Bill White/President Ridgway White rwhite@mott.org 810-614-5980
Mott Children's Health Center CEO Dr. Lawrence Reynolds LawrenceR@mottchc.org
Rev. Dr. Henry L. Fuller, Mt. Calvary Missionary Baptist Church and Wolverine State Convention President, 787-2563
Rev. Alfred Harris, President Concerned Pastors, revalharris1@hotmail.com 810-394-6787
Superintendent Quintin Marshall, President Genesee County Church of God in Christ Alliance, suptmarshall@att.net 810-280-8179

General Motors Communications, Tom Wickham tom.wickham@gm.com 248-707-9064

I also want to see if any of the officials would be willing to meet with a small group afterwards for discussion at the Greater Flint Health Coalition office. I think this could take place without any fanfare and the coalition can do those invites tomorrow mid-morning to include any of the above not able to be invited to the press conference and a few other key stakeholders such as hospital and university CEOs and medical community leaders.

Thank you for the consideration.
Dayne

On Thu, Oct 1, 2015 at 5:57 PM, Thelen, Mary Beth (DEQ) <THELENM2@michigan.gov> wrote:

Dear Mayor Walling,

Please refer to the information below.

Thank you.

Mary Beth

Mary Beth Thelen

Management Assistant to Director Dan Wyant

Department of Environmental Quality

Constitution Hall, 6th Floor South

Phone: 517-284-6712 or 284-6700 (new numbers)

Fax: 517-241-7401

Thelenm2@michigan.gov

From: Michigan Department of Environmental Quality [mailto:MIDEQ@govsubscriptions.michigan.gov]
Sent: Thursday, October 01, 2015 5:22 PM
To: Thelen, Mary Beth (DEQ)
Subject: [DEQ] Michigan leaders to announce action plan for Flint drinking water

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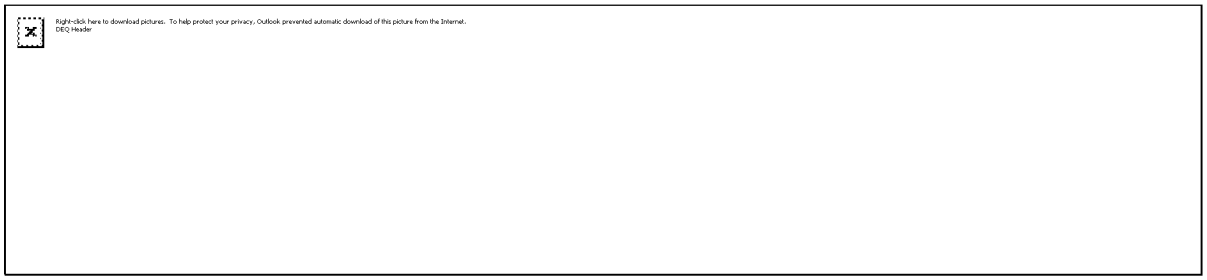


Oct. 1, 2015

Michigan leaders to announce action plan for Flint drinking water

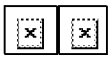
Friday, Oct. 2 at 1:30 p.m.
Local, state and federal leaders will host a press conference to announce a comprehensive action plan for addressing drinking water concerns in Flint. Participants will include:
• Harvey Hollins, Director of the Office of Urban Initiatives for Gov. Rick Snyder
• Dan Wyant, Director for the Michigan Department of Environmental Quality
• Nick Lyon, Director for the Michigan Department of Health and Human Services
• Dr. Eden Wells, Chief Medical Executive for the Michigan Department of Health and Human Services
• Dayne Walling, Mayor of Flint
• Other local, state and federal officials

Location:
Kettering University, Innovation Center
1300 Bluff St.
Flint, MI 48504

This is a media event open to credentialed news media only. Media who plan to attend this event should RSVP by noon Friday. Contact Rosemarie Olszewski at 517-284-6700 or olszewskir@michigan.gov.

Questions?
Contact Us
Ph: 800-662-9278

STAY CONNECTED:



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Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
810-766-7346
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

From: Wurfel, Brad (DEQ)
Sent: Monday, October 05, 2015 3:13 PM
To: Kaffer, Nancy
Cc: Wurfel, Sara (GOV); Wisely, John
Subject: Re: Follow-up questions

Nancy, saw a response Friday and thought it went to you. Will find and forward that asap.
Thanks
b

Sent from my iPhone

On Oct 5, 2015, at 2:49 PM, Kaffer, Nancy <nkaffer@freepress.com> wrote:

> Hi Sara – sent these last week and got no response. Figured some of these are MDEQ questions, so I'm adding Brad onto the list, here.
>
> ASAP would be great.
>
> Thanks!
>
> N
>
> Nancy Kaffer
> Columnist
> Detroit Free Press
> www.freep.com/abettermichigan
> 313-222-6585
> @nancykaffer, @abettermi
>
> **From:** Kaffer, Nancy
> **Sent:** Friday, October 02, 2015 12:06 PM
> **To:** 'Wurfel, Sara (GOV)' <Wurfels@michigan.gov>
> **Subject:** Follow-up questions
> **Importance:** High
>
> - Reviewing my notes, I'm not sure I got a definitive answer from Wyant about corrosion control at the Flint water treatment plant.
>   Was corrosion control in use? I'd like a simple yes or no, here – if no, obviously, why not – if yes, what was it, and why was – if any – what sounds like a lesser degree of corrosion control being used? I would like the names of the specific technologies/chemicals that were in use in the past, if in fact corrosion control was being used at the Flint plant, and the specific technologies that will be used going forward.
> - Was the MDEQ unaware that there were aging lead service lines in Flint, and that those would increase the lead risk? Were the Flint water treatment folks? Why was this not taken into account in developing the water treatment plan?

- Wyant said that “two consecutive back to back tests” showed there was a problem; when were those tests performed and when were the results available?

Obviously I would like to use this information in a piece we’ll have ready to go at 1:30p so ASAP would be great.

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Wurfel, Brad (DEQ)
Sent: Monday, October 05, 2015 3:42 PM
To: Kaffer, Nancy
Cc: Wurfel, Sara (GOV); Wisely, John
Subject: Re: Follow-up questions

We can make that happen.

Sent from my iPhone

On Oct 5, 2015, at 3:41 PM, Kaffer, Nancy <nkaffer@freepress.com> wrote:

> Thanks, Brad. Also, I would find it helpful – and probably John would, as well – if someone from MDEQ could walk us through the state's process of signing off on a local water treatment plan.
>
> Nancy Kaffer
> Columnist
> Detroit Free Press
> www.freep.com/abettermichigan
> 313-222-6585
> @nancykaffer, @abettermi
>
> **From:** Wurfel, Brad (DEQ) [mailto:WurfelB@michigan.gov]
> **Sent:** Monday, October 05, 2015 3:13 PM
> **To:** Kaffer, Nancy <nkaffer@freepress.com>
> **Cc:** Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Wisely, John <jwisely@freepress.com>
> **Subject:** Re: Follow-up questions
>
> Nancy, saw a response Friday and thought it went to you. Will find and forward that asap.
> Thanks
> b
>
> Sent from my iPhone
>
> On Oct 5, 2015, at 2:49 PM, Kaffer, Nancy <nkaffer@freepress.com> wrote:
>
> > Hi Sara – sent these last week and got no response. Figured some of these are MDEQ questions, so I'm adding Brad onto the list, here.
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> > N
> >
> > Nancy Kaffer
> > Columnist

Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Kaffer, Nancy
Sent: Friday, October 02, 2015 12:06 PM
To: 'Wurfel, Sara (GOV)' <Wurfels@michigan.gov>
Subject: Follow-up questions
Importance: High

- Reviewing my notes, I'm not sure I got a definitive answer from Wyant about corrosion control at the Flint water treatment plant.
  Was corrosion control in use? I'd like a simple yes or no, here – if no, obviously, why not – if yes, what was it, and why was – if any – what sounds like a lesser degree of corrosion control being used? I would like the names of the specific technologies/chemicals that were in use in the past, if in fact corrosion control was being used at the Flint plant, and the specific technologies that will be used going forward.
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- Wyant said that "two consecutive back to back tests" showed there was a problem; when were those tests performed and when were the results available?

Obviously I would like to use this information in a piece we'll have ready to go at 1:30p so ASAP would be great.

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Wurfel, Brad (DEQ)
Sent: Friday, October 16, 2015 2:01 PM
To: Murray, David (GOV); Wurfel, Sara (GOV)
Subject: Please bless our reaction to the US EPA announcement?

Regarding the EPA announcement:
"We are glad to have the continued technical support and counsel from our federal partners. We have been working closely with the U.S. EPA on the challenges in Flint, including their added presence on the city's technical advisory and the Governor's 10-point plan. This is welcome news and we anticipate it will help us implement the Governor's strategy."

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713
PPI cell

From: Wyant, Dan (DEQ)
Sent: Monday, October 19, 2015 8:22 AM
To: Wurfel, Brad (DEQ)
Cc: Wurfel, Sara (GOV); Krisztian, George (DEQ)
Subject: Re: Three key messages

This is good.

Sent from my iPhone

> On Oct 19, 2015, at 8:20 AM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:
>
>
> 1. It is increasingly clear through internal review at DEQ that staff overseeing drinking water mistakenly applied the wrong federal protocol when the city of Flint switched to the Flint River.
>
> 2. Today's announcement of new leadership in that division aligns with the states goal: make sure the public health is protected in Flint and elsewhere in the state, and ensure we learn from this so it never happens again.
>
> 3. The governor's action plan continues to protect kids and families in Flint, with the switch back to Detroit water last week, free water filtration for all city residents, and inspection of all Flint schools for lead exposure.
>
> 4. Flint families who are concerned are encouraged to take advantage of free home water testing through the city and blood lead level testing for children.
>
>
>
>
> Sent from my iPhone

From: Minicuci, Angela (DHHS)
Sent: Thursday, October 01, 2015 5:25 PM
To: Tommasulo, Karen (DEQ); Lasher, Geralyn (DHHS); Eisner, Jennifer (DHHS)
Cc: Wurfel, Brad (DEQ); Wurfel, Sara (GOV); Murray, David (GOV); Pallone, Maggie (DEQ)
Subject: RE: run of show
Attachments: 151001 News release DHHS edits.docx

Please use this version instead. Clarified Nick's quote.

Angela

From: Minicuci, Angela (DHHS)
Sent: Thursday, October 01, 2015 5:19 PM
To: Tommasulo, Karen (DEQ) <TommasuloK@michigan.gov>; Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>
Cc: Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Pallone, Maggie (DEQ) <PalloneM@michigan.gov>
Subject: RE: run of show

Our edits are attached. Thank you!

Angela

From: Tommasulo, Karen (DEQ)
Sent: Thursday, October 01, 2015 4:42 PM
To: Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>; Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>
Cc: Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Pallone, Maggie (DEQ) <PalloneM@michigan.gov>
Subject: run of show

Here's the run of show as it stands. Did you want to add Nick's comments or change anything else on it? I'm not sure how much he works from prepared remarks.

Karen Tommasulo
Public Information Officer
Michigan Department of Environmental Quality
517-284-6716 | 517-599-5733
tommasulok@michigan.gov

Oct. 2, 2015

For More Information:
Sara Wurfel or Dave Murray
Brad Wurfel, 517-284-6713, wurfelb@michigan.gov
~~Angela Minicuci~~Jennifer Eisner, 517-230-9804, eisnerj@michigan.gov

Michigan leaders announce action plan for Flint drinking water

Local, state and federal leaders today announced a comprehensive action plan for drinking water in Flint, designed to address both the short- and long-term needs of residents.

Gov. Rick Snyder, the Michigan Departments of Environmental Quality, and Health and Human Services, the Environmental Protection Agency, and the City of Flint released an~~The~~ action plan focuses on increasing water testing, offering additional precautions for families with lead plumbing in their homes, and providing long-term solutions to address the city's water infrastructure.

"We are deeply concerned by the lead results we are seeing in parts of Flint," Snyder said. "Although we know the water leaving Flint's drinking water system is safe to drink, some families with lead plumbing on their property experience higher levels of lead in the water that comes out of their faucets. We are concerned for those families, and we created this action plan to address their immediate needs as well as the long-term needs of all Flint residents."

The city and the state also are working together to gather more data to ensure the water that leaves the treatment plant as well as the water that arrives in Flint homes is safe for all residents. The plan includes:

- Immediately test Flint public schools to ensure that drinking water is safe. Testing also will be available at no cost to any other school in Flint.

- Expand health exposure testing of individual residences.
- Offer water testing at no cost to Flint residents to assure water is safe.
- Begin optimizing corrosion controls in the Flint drinking water system.
- Convene a "Safe Drinking Water Technical Advisory Committee" to ensure the best technology, practices and science are being utilized, and add an expert from the EPA's Office of Research and Development to the group.
- Accelerate water system improvements to address replacement of lead service lines.
- Expedite completion of Karegnondi Water Authority.
- Gov. Rick Snyder names Dr. Eden Wells as the Flint Drinking Water Public Health Advisor.
- Provide water filters to residents of Flint.
- Expand a comprehensive lead education initiative.

In addition to the action plan, zip code-level data does show that there has been an increase in elevated childhood blood lead levels in specific communities. Initial analysis of MDHHS data found that blood lead levels of children in Flint have followed an expected seasonal trend. While this analysis for Flint as a whole remains true, after a comprehensive and detailed review down to the zip code level, MDHHS data state analysis is consistent with that presented by Hurley Children's Hospital.

"While we cannot conclusively say that the water source change is the sole cause of the increase, this analysis supports our efforts as we take active steps to reduce all potential lead exposures in Flint," said MDHHS Director Nick Lyon. "As part of this, we are working closely with our public and private partners to provide Flint residents on MDHHS assistance programs with water filters and educate families about the steps they can take to reduce all lead exposures in their home."

MDHHS is making National Sanitation Foundation (NSF) certified water filters available to clients who are active Family Independence Program (FIP), Food Assistance Program (FAP), Child Development and Care (CDC) or Social Security Insurance (SSI) recipients.

Local, state and federal leaders announced the plan at a press conference today at Kettering University's Innovation Center in Flint. Participants included:

- Harvey Hollins, Director of Snyder's Office of Urban Initiatives
- Dan Wyant, Director of the Michigan Department of Environmental Quality
- Nick Lyon, Director for the Michigan Department of Health and Human Services
- Dr. Eden Wells, Flint Drinking Water Public Health Adviser
- Dayne Walling, Mayor of Flint

"This action plan offers concrete steps we will take in a local, state and federal partnership to ensure all Flint residents have safe water to drink," Wyant said. "The DEQ will work closely with the city to gather further data to ensure the water that leaves Flint's system as well as the water that arrives in Flint homes is safe to drink."

To have your water tested, call 810-787-6537 and press 1, or email flintwater@cityofflint.com. For more information, visit www.michigan.gov/flintwater.

###

Formatted: Centered

From: Minicuci, Angela (DHHS)
Sent: Thursday, October 01, 2015 11:49 PM
To: Wurfel, Sara (GOV)
Cc: Lasher, Geralyn (DHHS); Eisner, Jennifer (DHHS)
Subject: Re: Revised DRAFT Flint water infographics

I'm fine with these. Not sure what residents with concerns means for water filters though.

Sent from my iPhone

On Oct 1, 2015, at 7:02 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

> Please make sure you have seen revised version of these infographics for tomorrow and weigh in ASAP. Just slight updates to match earlier changes.
>
> Thanks!
>
> ---
>
> **From:** Paciorek, Josh (GOV)
> **Sent:** Thursday, October 01, 2015 6:24 PM
> **To:** Murray, David (GOV) <MurrayD1@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Tommasulo, Karen (DEQ) <TommasuloK@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>; Heaton, Anna (GOV) <HeatonA@michigan.gov>
> **Subject:** RE: Revised DRAFT Flint water action plan. Please review!
>
> Attached are the most recent versions of the 1-pagers
>
> Josh
>
> <FlintWater_ActionPlan_100115.pdf>
>
> <FlintWater_Tips_100115.pdf>

From: Eisner, Jennifer (DHHS)
Sent: Friday, October 02, 2015 4:00 PM
To: Eggert, David
Cc: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: Re: $1M

We're still determining the quantities needed, associated costs, and purchasing process. Director Lyon is commited to ensuring that our clients can obtain filters and have safe drinking water.

From: Eggert, David <DEggert@ap.org>
Sent: Friday, October 2, 2015 3:18:09 PM
To: Eisner, Jennifer (DHHS)
Cc: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: RE: $1M

Jennifer,

How much are you spending for the people on public assistance to get filters?

From: Eisner, Jennifer (DHHS) [mailto:EisnerJ@michigan.gov]
Sent: Friday, October 02, 2015 12:46 PM
To: Eggert, David
Subject: Re: $1M

Hey Dave- We are currently working with retailers on pricing and the purchasing process. Based on where we are in those discussions, our partnerships with community organizations, and MDHHS emergency funds, we feel confident that Flint residents will have access to filters.

Sent from my iPhone

On Oct 2, 2015, at 11:52 AM, "Eggert, David" <DEggert@ap.org> wrote:

> How many water filters can you buy with $1M? Thx.

<image001.jpg>

<image002.jpg>

David Eggert
State government reporter

215 S. Washington Square, Suite 170
Lansing, MI 48933
T 517-482-8011
M PPI

deggert@ap.org
www.ap.org

The information contained in this communication is intended for the use of the designated recipients named above. If the reader of this communication is not the intended recipient, you are hereby notified that you have received this communication in error, and that any review, dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify The Associated Press immediately by telephone at +1-212-621-1898 and delete this email. Thank you.
[IP_US_DISC]

msk dccc60c6d2c3a6438f0cf467d9a4938

From: Darnell Earley <darnell.earley@detroitk12.org>
Sent: Tuesday, October 20, 2015 1:45 PM
To: Muchmore, Dennis (GOV); Michelle Zdrodowski; Baird, Richard (GOV); Paul Conners; Saxton, Thomas (Treasury); Khouri, Nick (TREASURY); Stanton, Terry A. (Treasury); Workman, Wayne (TREASURY); Wurfel, Sara (GOV); Murray, David (GOV); haddenf@michigan.gov
Cc: Kelly Rossman-McKinney
Subject: Re: Earley Flint Water OpEd-FOR REVIEW AND INPUT

So noted...Thanks!

DE

Darnell Earley, ICMA-CM, MPA
Emergency Manager
Detroit Public Schools

From: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Sent: Tuesday, October 20, 2015 1:44 PM
To: Michelle Zdrodowski; Baird, Richard (GOV); Paul Conners; Saxton, Thomas (Treasury); Khouri, Nick (TREASURY); Stanton, Terry A. (Treasury); Workman, Wayne (TREASURY); Wurfel, Sara (GOV); Murray, David (GOV); haddenf@michigan.gov
Cc: Darnell Earley; Kelly Rossman-McKinney
Subject: RE: Earley Flint Water OpEd-FOR REVIEW AND INPUT

We think it is fine. Jarrod suggests strongly that you leave out the Ghandhi quote. We think it detracts from your overall message.

From: Michelle Zdrodowski [mailto:michelle.zdrodowski@detroitk12.org]
Sent: Monday, October 19, 2015 5:13 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>; Paul Conners <connersp@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Khouri, Nick (TREASURY) <KhouriN@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; haddenf@michigan.gov
Cc: Darnell Earley <darnell.earley@detroitk12.org>; Kelly Rossman-McKinney <krossman@truscottrossman.com>
Subject: Earley Flint Water OpEd-FOR REVIEW AND INPUT

All,

Darnell Earley asked that I send you the draft of an OpEd regarding the Flint Water issue that he would like to send to the media this week.

He is seeking your input before sending, and is looking for any feedback you might have by tomorrow afternoon. He has intentionally placed it on his EM letterhead as he is still acting in the capacity of an EM.

Thank you.

Michelle Z.

Michelle A. Zdrodowski
Executive Director of Communications
Detroit Public Schools
3011 W. Grand Boulevard, 14th Floor
Detroit, MI 48202
313.873.3238, office
PPI, mobile

From: Darnell Earley <darnell.earley@detroitk12.org>
Sent: Tuesday, October 20, 2015 1:59 PM
To: Stanton, Terry A. (Treasury); Muchmore, Dennis (GOV); Michelle Zdrodowski; Baird, Richard (GOV); Paul Conners; Saxton, Thomas (Treasury); Khouri, Nick (TREASURY); Workman, Wayne (TREASURY); Wurfel, Sara (GOV); Murray, David (GOV); haddenf@michigan.gov
Cc: Kelly Rossman-McKinney
Subject: Re: Earley Flint Water OpEd-FOR REVIEW AND INPUT

Good point...will revise.

DE

Darnell Earley, ICMA-CM, MPA
Emergency Manager
Detroit Public Schools

From: Stanton, Terry A. (Treasury) <StantonT@michigan.gov>
Sent: Tuesday, October 20, 2015 1:57 PM
To: Darnell Earley; Muchmore, Dennis (GOV); Michelle Zdrodowski; Baird, Richard (GOV); Paul Conners; Saxton, Thomas (Treasury); Khouri, Nick (TREASURY); Workman, Wayne (TREASURY); Wurfel, Sara (GOV); Murray, David (GOV); haddenf@michigan.gov
Cc: Kelly Rossman-McKinney
Subject: RE: Earley Flint Water OpEd-FOR REVIEW AND INPUT

Per Tom, you may also want to more directly note that DWSD **terminated** the contract with Flint, rather than to say "as the contract with DWSD expired in April 2014…" in the 5th paragraph.

From: Darnell Earley [mailto:darnell.earley@detroitk12.org]
Sent: Tuesday, October 20, 2015 1:45 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Michelle Zdrodowski <michelle.zdrodowski@detroitk12.org>; Baird, Richard (GOV) <bairdr@michigan.gov>; Paul Conners <connersp@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Khouri, Nick (TREASURY) <KhouriN@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; haddenf@michigan.gov
Cc: Kelly Rossman-McKinney <krossman@truscottrossman.com>
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Detroit Public Schools

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Cc: Darnell Earley <darnell.earley@detroitk12.org>; Kelly Rossman-McKinney <krossman@truscottrossman.com>
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Michelle A. Zdrodowski
Executive Director of Communications
Detroit Public Schools
3011 W. Grand Boulevard, 14th Floor
Detroit, MI 48202
313.873.3238, office
PPI mobile

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Friday, February 27, 2015 4:29 PM
To: Jason Lorenz
Subject: Re: PRESS RELEASE: Recent Tests Show Flint Water within EPA Guidelines
Attachments: TTHM Results February.pdf; February TTHM Result Chart.pdf

Attached is the release with the proper date.

For Immediate Release

Recent Tests Show Flint Water within EPA Guidelines

Flint, Michigan – February 27, 2015 – The Michigan Department of Environmental Quality (MDEQ) Testing lab has provided results to the City of Flint showing that test results for TTHM levels for the month of February are well within EPA guidelines for safe water. All eight testing sites showed levels of TTHM ranging between 14.9 and 28.5 micrograms per liter (μg/L), well below the Maximum Contamination Level of 80 (see chart below).

The testing results confirm the progress made by the City to address concerns regarding the safety of its water supply and corroborates findings by the City and independent tests by other organizations that the water today is safe. "Flint's water supply is meeting all safety guidelines set forth by the EPA," said DPW Director Howard Croft. "Today's findings by the MDEQ reinforce the progress we have made, and should help rebuild confidence in the safety of Flint's drinking water. We still have work to do to improve water quality and are committed to being vigilant to assure that water safety is maintained."

These results also show that the four month average for test results is now within EPA guidelines for five of the eight testing areas in the City. However, because EPA regulations require that the four month average for all testing sites be within guidelines, the City of Flint will still be considered to be out of compliance by MDEQ. The City expects to receive notice within the next few weeks indicating non-compliance, and system users can expect to receive official notice of non-compliance in the month of March.

Meanwhile, the City continues to work on maintaining water safety and improving water quality. While steps are being taken daily to improve quality, the City is expecting a formal set of recommendations from its water quality experts within the next few weeks.

The detail of the study results, a report of the progress being made and preliminary recommendations from Veolia will be shared with the newly formed Water Advisory Committee and Water Technical Committee, whose first meetings are scheduled for next week.

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

On Fri, Feb 27, 2015 at 4:04 PM, Jason Lorenz <jlorenz@cityofflint.com> wrote:

Recent Tests Show Flint Water within EPA Guidelines

Flint, Michigan – March 2, 2015 – The Michigan Department of Environmental Quality (MDEQ) Testing lab has provided results to the City of Flint showing that test results for TTHM levels for the month of February are well within EPA guidelines for safe water. All eight testing sites showed levels of TTHM ranging between 14.9 and 28.5 micrograms per liter (µg/L), well below the Maximum Contamination Level of 80 (see chart attached).

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See Attached. Areas in blue (under February) indicate current levels.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

Gerald Ambrose
Emergency Manager

Dayne Walling
Mayor

Jason Lorenz
Public Information Officer
(810) 237-2039
jlorenz@cityofflint.com

For Immediate Release

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–CONTINUE–

Gerald Ambrose
Emergency Manager

Dayne Walling
Mayor

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Areas in blue (under February) indicate current levels:

DISINFECTION BY-PRODUCTS - DEQ Required Testing

MCL for TTHM = 80 ug/L MCL for HAA5 = 60 ug/L

	May-14		Aug-14		Nov-14		Feb-15		LRAA		MAX	MIN
	TTHM	HAA5	TTHM	HAA5	TTHM	HAA5	TTHM	HAA5	TTHM	HAA5	TTHM	TTHM
Water Plant Tap	56	36	86	38	83	38		36	58.3	36.8	86.0	33.0
	*Three Yearly (June 2014)		*Three Yearly (June 2014)		*Three Yearly (June 2014)		*Three Yearly (June 2014)		*Three Yearly (June 2015)			
Site # 1	162.4	64.0	145.3	43.0	58.6	16.0	16.2	9.0	95.6	33.0	162.4	16.2
Site # 2	111.6	52.0	112.0	40.0	36.2	21.0	19.9	9.0	69.9	30.5	112.0	19.9
Site # 3	96.5	48.0	127.2	31.6	33.3	15.0	16.8	9.0	68.5	25.8	127.2	16.8
Site # 4	106.8	53.0	181.3	24.0	33.9	15.0	18.1	9.0	84.8	25.8	181.3	18.1
Site # 5	75.1	38.8	196.2	11.6	93.6	24.0	24.5	9.0	97.4	30.5	196.2	24.5
Site # 6	82.2	41.0	112.4	25.0	50.1	5.0	28.5	2.0	68.3	18.3	112.4	28.5
Site # 7	58.3	49.0	144.4	30.0	53.6	17.0	19.2	9.0	76.4	26.3	144.4	19.2
Site # 8	79.2	50.8	118.3	37.6	41.1	18.0	14.9	9.0	63.4	28.5	118.3	14.9

*Sampled at end of loop.

–END–

DISINFECTION BY-PRODUCTS - DEQ Required Testing

MCL for TTHM = 80 ug/L MCL for HAA5 = 60 ug/L

	May-14		Aug-14		Nov-14		Feb-15		LRAA		MAX	MIN
	TTHM	HAA5	TTHM	HAA5	TTHM	HAA5	TTHM	HAA5	TTHM	HAA5	TTHM	TTHM
Water Plant Tap	56	36	86	36	33	36		36	58.3	36.0	86.0	33.0
	*Once Yearly (June 2014)		*Once Yearly (June 2014)		*Once Yearly (June 2014)		*Once Yearly (June 2014)		*Once Yearly (June 2014)			
Site # 1	162.4	64.0	145.3	43.0	58.6	16.0	16.2	9.0	95.6	33.0	162.4	16.2
Site # 2	111.6	52.0	112.0	40.0	36.2	21.0	19.9	9.0	69.9	30.5	112.0	19.9
Site # 3	96.5	48.0	127.2	31.0	33.3	15.0	16.8	9.0	68.5	25.8	127.2	16.8
Site # 4	106.4	55.0	181.3	24.0	33.9	15.0	18.1	9.0	84.9	25.8	181.3	18.1
Site # 5	75.1	38.0	196.2	11.0	93.6	24.0	24.5	9.0	97.4	20.5	196.2	24.5
Site # 6	82.2	41.0	112.4	25.0	50.1	5.0	28.5	2.0	68.3	18.3	112.4	28.5
Site # 7	88.2	49.0	144.4	30.0	53.6	17.0	19.2	9.0	76.4	26.3	144.4	19.2
Site # 8	79.2	50.0	118.3	37.0	41.1	18.0	14.9	9.0	63.4	28.5	118.3	14.9

*Sampled at end of Oct.

Total Organic Carbon (mg

	Raw	Final
May	10.30	4.57
June	9.00	3.63
July	8.44	2.67
August	8.48	4.06
Sept	7.36	3.30
Oct	7.38	2.99
Nov	7.27	3.86
Dec	6.49	2.59
Jan	7.62	3.21
Feb	5.95	2.07

r/L)

From: Wurfel, Brad (DEQ)
Sent: Tuesday, March 17, 2015 10:37 AM
To: Wurfel, Sara (GOV)
Subject: Fwd: City of Flint Information - Consultants

Sent from my iPhone

Begin forwarded message:

> **From:** "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
> **Date:** March 17, 2015 at 10:11:30 AM EDT
> **To:** "Agen, Jarrod (GOV)" <AgenJ@michigan.gov>
> **Subject: Fwd: City of Flint Information - Consultants**
>
> FYI.
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> > **From:** "Thelen, Mary Beth (DEQ)" <THELENM2@michigan.gov>
> > **Date:** March 17, 2015 at 9:54:53 AM EDT
> > **To:** "Hollins, Harvey (GOV)" <hollinsh@michigan.gov>
> > **Cc:** "Wyant, Dan (DEQ)" <WyantD@michigan.gov>, "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>, "Thelen, Mary Beth (DEQ)" <THELENM2@michigan.gov>, "Clayton, Stacie (GOV)" <claytons3@michigan.gov>, "Sygo, Jim (DEQ)" <SygoJ@michigan.gov>
> > **Subject: City of Flint Information - Consultants**
> >
> > Good Morning Harvey,
> >
> > The consultants listed below are working with Flint and are in the best position to recommend a water filter system. The locals should be asked to use their consultants to recommend a technology.
> >
> > Warren Green with Lockwood, Andrews & Newman, Inc.
> > 630-918-2494
> >
> > and
> >
> > Marvin Gnagy with Veolia North America
> > 419-450-2931

Thank you.

Dan Wyant
Director

Mary Beth

Mary Beth Thelen
Management Assistant to Director Dan Wyant
Department of Environmental Quality
Constitution Hall, 6th Floor South
Phone: 517-284-6712 or 284-6700 (new numbers)
Fax: 517-241-7401
Thelenm2@michigan.gov

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Monday, April 13, 2015 6:22 PM
Subject: PRESS RELEASE: Emergency Manager Transition Update to City Council
Attachments: EM Update to City Council April, 2015.PDF; EM Transition Update Release 4.13.15.pdf

For Immediate Release

EM Updates Council, Requests support for Emergency Loan and District Court Consolidation; Adjusts Salaries for Mayor and Council

Flint, Michigan – April 13, 2015 – By letter to City Council issued today, Emergency Manager Jerry Ambrose congratulated City Council for their recent actions committing to restoring and maintaining the City's financial solvency. Mr. Ambrose stated that recent actions to adopt a series of ordinances requiring commitment to establishing appropriate financial reserves and an improved planning and budgeting process indicate that the Council understands the need to restore and maintain Flint's financial solvency. "While there is much yet to do, these are positive steps in the right direction," said Mr. Ambrose. "The ongoing challenge will be to adhere to the requirements the City Council has adopted themselves."

Mr. Ambrose's letter also reiterated the priority issues currently facing the City – developing a long range financial plan, beginning with the upcoming FY16 and FY17 budget; continuing to address concerns with water safety, quality and affordability; and stabilizing resources for public safety. "These are clearly the top priority issues, and ones which require the cooperation of all if they are to be successfully addressed," stated Mr. Ambrose. "Unfortunately, resources are extremely limited, and we must make decisions which address the most critical issues in a financially sound manner – and that often means we cannot do everything everybody wants."

Some of the ingredients of restoring Flint's financial solvency on a sustainable basis, according to Mr. Ambrose, include obtaining a $7 million loan to finance the accumulated General Fund deficit and approving the consolidation of the 67th and 68th District Courts. Both issues are pending before City Council and Mr. Ambrose is hopeful for a quick positive response. "The terms and conditions offered with this loan equate to a good deal for the City and will enable it to begin to more quickly rebuild its financial solvency. Approving the court consolidation will reduce City expenses by $8.4 million over the next 10 years and will help to provide some stability in funding other public safety services."

Mr. Ambrose also presented Council with actions he is taking to continue the progress towards transition, including an updated purchasing ordinance and an order officially defining the role of the new City

Administrator as the chief administrative officer for the City. "Moving the City forward in today's environment requires professional managers, clear responsibilities, and modern practices," said Ambrose. "These actions move in that direction, and hopefully move the Council forward in truly becoming the governing body of the City, focused on policies and accountability for moving the City forward based on its vision, mission, and goals."

Recognizing the increasing role of the Mayor and Council as the City transitions to home rule with oversight by a Receivership Transition Advisory Board, Mr. Ambrose announced that he is reestablishing the salaries for Mayor and Council at the levels in place before the City was most recently placed into state receivership. He noted that Council meetings are now held twice per month, with committee meetings held once per month, and the Mayor is now much more engaged in a Chief Executive role. Continued receipt of the re-established salaries, however, will be contingent upon attainment of certain training levels. These training levels were established in prior orders of the Emergency Manager, and Councilmembers will have until November 1, 2015 to obtain it, or their salary will be reduced to the current level.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

CITY OF FLINT

OFFICE OF THE EMERGENCY MANAGER

Gerald Ambrose
Emergency Manager

TO: Josh Freeman, President, Flint City Council

From: Jerry Ambrose, Emergency Manager

Cc: Flint City Council
Mayor Dayne Walling
Natasha L. Henderson, City Administrator

DATE: April 13, 2014

RE: Update and Transition Progress

Thank you for your consideration of my request for authorization to apply for the $7 million loan from the State's Emergency Loan Board. This loan, if approved, will be used to eliminate the City's General Fund deficit ahead of the schedule in our current Deficit Elimination/Reserve Accumulation Plan. This will enable the City to move forward with building adequate reserves necessary to foster financial stability. This, along with the commitments established in ordinance to develop and maintain a multi-year budget based on a strategic plan and to address the funding of long term liabilities, Flint's financial solvency can be sustainable.

Thank you also for your consideration of the proposed consolidation of the 68th and 67th District Court, an action which has been long in the making. Recommended by the State Court Administrators Office and authorized by state law, the consolidation is planned to become effective January 2, 2016. The Memorandum of Understanding, approved today by the Genesee County Board of Commissioners, details the advantages the consolidation will have for the City of Flint. The city will see a reduction in costs of more than $8.4 million over the first 10 years, providing some much needed funds to support police services. Additionally the new court division is assured of at least 2 probation officers, something which the Court has not had for several years. And, as provided in both law and the agreement, judges will continue to be elected from within the City.

As you know, my focus over the past few months has been and continues to be transitioning the City from oversight by an Emergency Manager to home rule under the guidance of a Receivership Transition Advisory Board.

Much progress has been made in preparing for the transition, including action by the City Council to complete the following:

- Final adoption of the Capital Improvements Plan
- Final adoption of ordinances regarding planning, budgeting, funds balance, and deficit elimination
- Update of the Strategic Plan's Vison, Mission, and Goals
- Adoption of budget priorities to guide development of the FY16/FY17 budget

Additionally, our new City Administrator Natasha Henderson is on board and is assuming duties as the experienced and professionally trained chief administrative officer for the City.

There are several issues which we are continuing to address, including:

- Water safety, quality, and affordability continues to be a top priority. The City's water supply today is safe, as measured by the same MDEQ standards that have been in place for years, and steps are being taken to improve treatment and distribution processes in order to address issues of discoloration and odor, and to assure continued safety. Reviews of our pricing structure are also underway to assure that customers are treated equitably while generating sufficient revenue to operate the system.

  Public safety continues to be an area of critical concern. The independent study of our police and fire organization provided a number of recommendations focused on how to best deploy the resources we have, and also confirmed that the staffing levels afforded by our limited resources are extremely low in comparison to comparable municipalities. This emphasizes the critical continuing importance of renewing the two voter-approved public safety millages and working to assure continuing state support through the assignment of state troopers and through financial support of the City lock-up. Loss of any of this support would be a disaster for the City.

- Achieving and then maintaining financial stability will continue to require constant attention. Approval of the ordinances regarding financial stability and the anticipated approval of the $7 million loan provide additional tools with which to work. Attention will need to be paid to not only developing and adopting budgets for FY16 and FY17 but doing so in the context of understanding the impact of those budgetary decisions into the following three years. Essential to this is making the budget decisions which truly address achievement of the stated vison, mission and goals for the City as adopted by the City Council. Unfortunately, the challenges in doing so will be great, as the City will continue to be faced with the reality of a structural deficit, where for the foreseeable future current expenditure patterns exceed revenue streams – a difficult position, given the City's already low level of services. Complicating this further is the potential impact of the retiree health care lawsuit, once the final outcome is decided.

- Finally progress continues with modernizing the operations of the City and setting the framework for future development. With the Master Plan and Capital Improvement Plan in place, focus is now turning to implementation, including updating the Zoning Ordinance.

As we move forward with preparing for transition, there is much work yet to do. Today I am taking three actions consistent with our path:

- Adoption of an updated purchasing policy – I am enacting the revisions to the Purchasing policy which were reviewed by Council within the past few months. These changes are made with the goal of assuring that the process of obtaining goods and services is consistent with the expectations of the Strategic Plan. There must be proper oversight and transparency, with a goal of obtaining goods and services that best meet the needs of City departments. The process must ensure competitive procurement, conducted in a timely and ethical manner. The City Council has an important role in assuring compliance with the policy, which is not the same as conducting purchasing operations.

- Confirming the role of the City Administrator – Before the search for a new City Administrator was begun, it was determined, within the context of the Seven Point Transition Plan, that an experienced and professional City Administrator would be selected on the basis of an open competitive process, and that the duties of the City Administrator would be structured in a manner which assures the ability to manage and direct the administrative affairs of the City in a professional manner. While those duties and expectations were described in the job description of the City Administrator and in recruitment materials, I am now formally enacting them in Emergency Manager Order Number 3.

- Re-establishing salaries for Mayor and Council – As we are moving towards transition, the duties and responsibilities of the Mayor and City Council are expanding towards the traditional roles of a City operating under home rule. Council meetings are now held twice per month, with committee meetings held once per month. The Mayor is now much more engaged in a Chief Executive role. Consequently, I have determined to re-establish the salaries for Mayor and Council at the levels in place immediately prior to the appointment of an Emergency Manager in November, 2011. Continued receipt of the re-established salaries, however, is contingent upon attainment of certain training. The re-established levels, and the contingency regarding training, is found in Emergency Manager Order Number 4.

Over the next several weeks, there will be much work with respect to finalizing the loan application and developing the FY16 and FY17 budgets along with FY18, FY19, and FY20 projections. Work will also continue with implementing improvements of the water system, and reviewing our associated rate structure. Evaluation and implementation of the recommendations for best use of

police and fire resources will continue, including corrective action for the police evidence room issues. Summer street maintenance and repair programs, as well as sidewalk repairs will soon be underway. Public meetings regarding the zoning ordinance are being held, with a recommended updated ordinance expected for consideration in late spring. A revision to the City's business licensing ordinance is expected soon. These are but a few of the many activities to be expected as the City makes the best use of its resources to provide the best level of service it can within the resources it has.

I look forward to working with you as we move towards transition to home rule under the guidance of a Receivership Transition Advisory Board. Please contact me if you have any questions.

Gerald Ambrose
Emergency Manager

Dayne Walling
Mayor

Jason Lorenz
Public Information Officer
(810) 237-2039
jlorenz@cityofflint.com

For Immediate Release

EM Updates Council, Requests support for Emergency Loan and District Court Consolidation; Adjusts Salaries for Mayor and Council

Flint, Michigan – April 13, 2015 – By letter to City Council issued today, Emergency Manager Jerry Ambrose congratulated City Council for their recent actions committing to restoring and maintaining the City's financial solvency. Mr. Ambrose stated that recent actions to adopt a series of ordinances requiring commitment to establishing appropriate financial reserves and an improved planning and budgeting process indicate that the Council understands the need to restore and maintain Flint's financial solvency. "While there is much yet to do, these are positive steps in the right direction," said Mr. Ambrose. "The ongoing challenge will be to adhere to the requirements the City Council has adopted themselves."

Mr. Ambrose's letter also reiterated the priority issues currently facing the City – developing a long range financial plan, beginning with the upcoming FY16 and FY17 budget; continuing to address concerns with water safety, quality and affordability; and stabilizing resources for public safety. "These are clearly the top priority issues, and ones which require the cooperation of all if they are to be successfully addressed," stated Mr. Ambrose. "Unfortunately, resources are extremely limited, and we must make decisions which address the most critical issues in a financially sound manner – and that often means we cannot do everything everybody wants."

Some of the ingredients of restoring Flint's financial solvency on a sustainable basis, according to Mr. Ambrose, include obtaining a $7 million loan to finance the accumulated

–CONTINUE–

General Fund deficit and approving the consolidation of the 67th and 68th District Courts. Both issues are pending before City Council and Mr. Ambrose is hopeful for a quick positive response. "The terms and conditions offered with this loan equate to a good deal for the City and will enable it to begin to more quickly rebuild its financial solvency. Approving the court consolidation will reduce City expenses by $8.4 million over the next 10 years and will help to provide some stability in funding other public safety services."

Mr. Ambrose also presented Council with actions he is taking to continue the progress towards transition, including an updated purchasing ordinance and an order officially defining the role of the new City Administrator as the chief administrative officer for the City. "Moving the City forward in today's environment requires professional managers, clear responsibilities, and modern practices," said Ambrose. "These actions move in that direction, and hopefully move the Council forward in truly becoming the governing body of the City, focused on policies and accountability for moving the City forward based on its vision, mission, and goals."

Recognizing the increasing role of the Mayor and Council as the City transitions to home rule with oversight by a Receivership Transition Advisory Board, Mr. Ambrose announced that he is reestablishing the salaries for Mayor and Council at the levels in place before the City was most recently placed into state receivership. He noted that Council meetings are now held twice per month, with committee meetings held once per month, and the Mayor is now much more engaged in a Chief Executive role. Continued receipt of the re-established salaries, however, will be contingent upon attainment of certain training levels. These training levels were established in prior orders of the Emergency Manager, and Council members will have until November 1, 2015 to obtain it, or their salary will be reduced to the current level.

–END–

From: Wurfel, Brad (DEQ)
Sent: Friday, April 17, 2015 11:48 AM
To: Muchmore, Dennis (GOV); Wurfel, Sara (GOV); Murray, David (GOV); Brown, Jessica (GOV)
Subject: RE: Flint SRF Letter

You probably don't want us running Treasury, Chief.

Heads up that EPA Region V Administrator Hedman (author of the letter to Kildee) is in Flint today, talking about brownfields (and getting a lot of questions about water).

Kildee appears to have been too busy to announce he got that formal reply from EPA. However, apparently a few reporters had obtained a copy of it and inquired about it when the pair were in Flint.
b

From: Muchmore, Dennis (GOV)
Sent: Friday, April 17, 2015 11:40 AM
To: Wurfel, Brad (DEQ); Wurfel, Sara (GOV); Murray, David (GOV); Brown, Jessica (GOV)
Subject: RE: Flint SRF Letter

Geez, let's just forgive everyone's loans and make the Wurfel's pay for it.

From: Wurfel, Brad (DEQ)
Sent: Thursday, April 16, 2015 12:09 PM
To: Wurfel, Sara (GOV); Murray, David (GOV); Brown, Jessica (GOV)
Cc: Muchmore, Dennis (GOV)
Subject: FW: Flint SRF Letter

FYI, Letter from EPA's Susan Hedman to Cong. Kildee regarding his idea to forgive Flint's old SRF loans.

It's four pages, but here's the summary takeaway message:

No.

b

-----Original Message-----
From: Deamer, Eileen
Sent: Wednesday, April 15, 2015 5:52 PM
To: jordan.dickinson@mail.house.gov
Cc: Hovey, Amy; Beckmann, Ronna Erin; Fortin, Denise

Subject: Flint SRF Letter

Jordan -

Please find attached a copy of EPA's response to your March 26, 2015 letter regarding loan forgiveness and the City of Flint.

Thank you,

Eileen Deamer
(312) 886-1728

Message

From: Jason Lorenz [jlorenz@cityofflint.com]
Sent: 6/23/2015 3:23:56 PM
Subject: PRESS RELEASE: U.S. District Court Order Denying Preliminary Injunction
Attachments: U.S.District.Court.Decision.Release.6.23.2015.pdf; CoF Motion to Dismiss.PDF

For Immediate Release

City of Flint Statement Regarding U.S. District Court Order Denying Motion for Preliminary Injunction.

Flint, Michigan – June 23, 2015 – The United States District Court of Eastern Michigan, Southern Division has today issued an order denying a motion for preliminary injunction in the case of Coalition for Clean Water vs. City of Flint. The injunction, which sought an order to force the City of Flint to accept the Detroit Water and Sewerage Department's offer to provide water for the City, was denied by U.S. District Judge Stephen J. Murphy, III who stated that "the Court is unable to determine the Coalition's legal theory, or even whether the Court has the power to grant the requested relief."

In response, City Attorney Pete Bade said "we are pleased with the Court's decision on this matter." The City Attorney's office has also today filed a motion for summary judgment from the court seeking dismissal of the action in its entirety.

–END–

-Jason Lorenz
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Dayne Walling
Mayor

Natasha L. Henderson
City Administrator

Jason Lorenz
Public Information Officer
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For Immediate Release

City of Flint Statement Regarding U.S. District Court Order Denying Motion for Preliminary Injunction.

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In response, City Attorney Pete Bade said "we are pleased with the Court's decision on this matter." The City Attorney's office has also today filed a motion for summary judgment from the court seeking dismissal of the action in its entirety.

–END–

UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF MICHIGAN
SOUTHERN DIVISION

COALITION FOR CLEAN WATER, a non-profit organization,

Plaintiff,

v.

CITY OF FLINT, a municipal entity, and CITY OF FLINT ADMINISTRATOR, NATASHA HENDERSON, in her official capacity,

Defendants.

Case No 2:15-cv-12084-SJM-DRG
Hon. Stephen J. Murphy III
Magistrate Judge David R. Grand

/

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/

DEFENDANTS' MOTION TO DISMISS PURSUANT TO FED. R. CIV. P. 12(b)(1) and (6)

ORAL ARGUMENT REQUESTED

Defendants City of Flint and City of Flint Administrator Natasha Henderson, by and through their attorneys, hereby move that this Court dismiss this Plaintiff's Complaint for lack of subject matter jurisdiction and failure to state a claim upon which relief can be granted. As such, Defendants are entitled to dismissal as a matter of law, pursuant to Fed. R. Civ. P. 12(b)(1) and Fed. R. Civ. P. 12(b)(6). For the reasons set forth in the attached brief, Defendants respectfully request that this Court grant this motion.

Concurrence in the relief sought in this Motion was requested from Plaintiff's counsel on June 22, 2015. Concurrence was not granted.

Respectfully submitted by

/s/ Anthony Chubb
Anthony Chubb (P72608)
CITY OF FLINT
Attorney for Defendants
1101 S. Saginaw Street, 3rd Floor
Flint, MI 48502
(810) 766-7146

Dated: June 23, 2015

UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF MICHIGAN
SOUTHERN DIVISION

COALITION FOR CLEAN WATER, a non-profit organization,

Plaintiff,

v.

CITY OF FLINT, a municipal entity, and CITY OF FLINT ADMINISTRATOR, NATASHA HENDERSON, in her official capacity,

Defendants.

Case No 2:15-cv-12084-SJM-DRG
Hon. Stephen J. Murphy III
Magistrate Judge David R. Grand

/

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/

BRIEF IN SUPPORT OF DEFENDANTS' MOTION TO DISMISS PURSUANT TO FED. R. CIV. P. 12(B)(1) AND (6)

ORAL ARGUMENT REQUESTED

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STATEMENT OF ISSUES PRESENTED

1) Should Count I and II of Plaintiff's Complaint be dismissed for a lack of subject matter jurisdiction pursuant to Fed. R. Civ. P. 12(b)(1)?

   Defendants' answer "Yes."

   Plaintiff's answer "No."

2) Should all Counts of Plaintiff's Complaint be dismissed for failure to state a claim upon which relief can be granted?

   Defendants' answer "Yes."

   Plaintiff's answer "No."

CONCISE STATEMENT OF THE REASONS AND AUTHORITY SUPPORTING MOTION

Defendants seek dismissal of Plaintiff's claims because Plaintiff has failed to meet the statutory notice requirements for its claims, has failed to allege the specific statutory or regulatory violations, and has pled claims under §1983 that are precluded by the Safe Drinking Water Act. Defendants rely upon the following controlling and/or persuasive authority:

INDEX OF AUTHORITIES

Cases

Ashcroft v. Iqbal, 556 U.S. 662, 678 (2009). 3

Bell Atlantic Corp. v. Twombly, 550 U.S. 544, 555 (2007) 3, 4

Charvat v. E. Ohio Reg'l Wastewater Auth., 246 F.3d 607, 614-615 (6th Cir. 2001) 6

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Eidson v. Tenn. Dep't of Children's Servs., 510 F.3d 631, 634 (6th Cir. 2007) 3

Hallstrom v. Tillamook County, 493 U.S. 20, 32 (1989) 3

Mattoon v. City of Pittsfield, 980 F.2d 1, 5-6 (1st Cir. 1982) 6

Middlesex County Sewarage Auth. V. Nat'l Sea Clammers Ass'n, 453 U.S. 1, 20 (1981) 6

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Rogers v. Stratton Indus., Inc., 798 F.2d 913, 915 (6th Cir. 1986) 2

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BRIEF IN SUPPORT OF DEFENDANTS' MOTION TO DISMISS PURSUANT TO FED. R. CIV. P. 12(B)(1) AND (6)

I. INTRODUCTION

This is a civil suit for declaratory and injunctive relief pursuant to the Safe Drinking Water Act (hereinafter "SDWA"), 42 U.S.C. §300f *et seq.*, as well as for monetary damages pursuant to 42 U.S.C. §1983. Plaintiff is a non-profit organization allegedly organized under Michigan law. Defendants are the City of Flint (hereinafter "Flint"), a municipal corporation organized pursuant to the Michigan Home Rule City Act, and Natasha Henderson, City Administrator (hereinafter "City Administrator") for the City of Flint, in her official capacity.

In lieu of filing an Answer, Defendants move for dismissal of all counts of Plaintiff's Complaint. First, Plaintiff has failed to satisfy the statutory notice requirements of 42 U.S.C. §300j-8(2), and the Court therefore lacks subject matter jurisdiction over claims in Counts I and II. Dismissal of Counts I and II is therefore warranted pursuant to Fed. R. Civ. P. 12(1) and required by Fed. R. Civ. P. 12(h)(3).

In addition, the allegations in Counts I and II of Plaintiff's Complaint fail to identify the statutory or regulatory requirement allegedly violated by Flint or the City Administrator, while the allegations in Counts III and IV of Plaintiff's Complaint are precluded by the SDWA as parallel constitutional claims. Plaintiff has thus failed to state a claim under which relief can be granted and dismissal is warranted pursuant to Fed. R. Civ. P. 12(b)(6).

II. BACKGROUND

The City of Flint owns and operates a water distribution and treatment system. Prior to 2014, the City of Flint purchased its water from the City of Detroit, which sourced its water from Lake Huron. In April of 2014, Flint stopped purchasing water from the City of Detroit and began utilizing the Flint River as its primary source of water. Due to unexpected challenges of treating

river water, Flint failed to pass Environmental Protection Agency (EPA) water quality tests in May, August, and November of 2014. Flint has since passed the EPA water quality tests in February and May of 2015, but continues to send out notices as required, since the average test results over the previous year remain out of compliance.

III. ARGUMENT

A. STANDARDS OF REVIEW

1. Fed. R. Civ. P. 12(b)(1)

A Rule 12(b)(1) motion to dismiss tests whether the Court has subject matter jurisdiction over the claims in Plaintiff's Complaint. Fed. R. Civ. P. 12(b)(1). A court that lacks subject matter jurisdiction over a case must dismiss that case. Fed. R. Civ. P. 12(h)(3). The plaintiff has the burden of proving subject matter jurisdiction. *Moir v. Greater Cleveland Regional Transit Auth.*, 895 F.2d 266, 269 (6th Cir. 1990); *Rogers v. Stratton Indus., Inc.*, 798 F.2d 913, 915 (6th Cir. 1986).

12(b)(1) motions are either factual or facial attacks. *United States v. Ritchie*, 15 F.3d 592, 598 (6th Cir. 1994). Facial attacks challenge the pleading itself, and are resolved under the same standard as a 12(b)(6) motion (i.e.. all well-pleaded allegations are accepted as true and construed in the light most favorable to the non-movant). *Id.* A factual attack, in contrast, challenges the factual existence of subject matter jurisdiction. *Id.* With a factual attack, the court does not presume the truth of the allegations and is free to "weigh the evidence and satisfy itself as to the existence of its power to hear the case." *Id.*

2. Fed. R. Civ. P. 12(b)(6)

A Rule 12(b)(6) motion to dismiss tests whether the well-pleaded allegations in the Plaintiff's Complaint state a claim under which relief can be granted. Fed. R. Civ. P. 12(b)(6). The Complaint must allege "sufficient facts that, accepted as true, 'state a claim to relief that is

plausible on its face.'" *Sutton v. Metro. Gov't of Nashville and Davidson Cnty.*, 700 F.3d 865, 871 (6th Cir. 2012) (*citing Bell Atlantic Corp. v. Twombly*, 550 U.S. 544, 570 (2007)). "A claim has facial plausibility when the . . . plead[ed] factual content allows the court to draw the reasonable inference that the defendant is liable for the misconduct alleged." *Ashcroft v. Iqbal*, 556 U.S. 662, 678 (2009).

Rule 8(a)(2) requires that a Complaint contain "a short a plain statement of the claim showing that the pleader is entitled to relief." Fed. R. Civ. P. 8(a)(2). This standard, while not requiring "detailed factual allegations," does require more than "labels and conclusions" or "a formulaic recitation of the elements of a cause of action." *Bell Atlantic Corp. v. Twombly*, 550 U.S. 544, 555 (2007). Conclusory allegations are not entitled to the assumption of truth. *Iqbal,* at 679; *see Eidson v. Tenn. Dep't of Children's Servs.*, 510 F.3d 631, 634 (6th Cir. 2007) ("Conclusory allegations or legal conclusions masquerading as factual allegations will not suffice.").

B. DISMISSAL OF COUNTS I AND II IS WARRANTED BECAUSE PLAINTIFF HAS FAILED TO SATISFY THE NOTICE REQUIREMENT OF 42 U.S.C. §300J-8(2) AND THE COURT THEREFORE LACKS SUBJECT MATTER JURISDICTION OVER THOSE COUNTS

The SDWA creates a civil cause of action against any person, including a governmental instrumentality, alleged to be in violation any requirement prescribed by or under the SDWA. 42 U.S.C. §300j-8(a)(1). However, the SDWA prohibits this civil cause of action unless the plaintiff has given notice of such violation to the Administrator of the Environmental Protection Agency (EPA), the alleged violator, and the State in which the violation occurs. 42 U.S.C. §300j-8(b)(1). Failure to give such notice deprives the Court of subject matter jurisdiction. *See Hallstrom v. Tillamook County*, 493 U.S. 20, 32 (1989) (holding that failure to comply with an identically worded provision in the Resource Conservation and Recovery Act acted as a total bar to suit);

see also Curtis v City of Bullhead, 69 Fed. Appx. 377 (9th Cir 2003) (upholding dismissal of SDWA claims due to lack of subject matter jurisdiction resulting from insufficient notice).

Counts I and II allege violations of the SDWA. Plaintiff has utterly failed to allege the required notice to any of the three persons listed in subsection (b)(1). Furthermore, on information and belief, Plaintiff has not only failed to *allege* that such notice was provided, but has in fact failed to *provide* such notice. Defendants thus factually attack the Court's subject matter jurisdiction in this matter. Since Plaintiff bears the burden of proving subject matter jurisdiction, Plaintiff must show that the proper notice was given to all three of the persons named in subsection (b)(1). Absent such a showing, a civil action in this matter will be barred by statute, the Court will lack subject matter jurisdiction, and dismissal of Counts I and II is required pursuant to Rule 12(h)(3).

C. EVEN IF SUBJECT MATTER JURISDICTION IS SOMEHOW ESTABLISHED, DISMISSAL OF COUNTS I AND II IS ALSO WARRANTED BECAUSE PLAINTIFF'S COMPLAINT FAILS TO ALLEGE A VALID CAUSE OF ACTION

A civil action pursuant to the SDWA must allege a violation of a requirement of or under the SDWA. 42 U.S.C. §300j-8(a)(1). While Counts I and II of Plaintiff's Complaint allege that "the City has violated the Safe Drinking Water Act," such an allegation is the essence of a "formulaic recitation of the elements of a cause of action." Nowhere does Plaintiff allege which specific regulation or statutory provision of the SDWA has been violated. Under the Federal pleading standard, simply alleging a variety of purported errors or misdeeds is insufficient – the purported errors or misdeeds must constitute a violation of a specific provision of the SDWA. *See Twombly*, 550 U.S. at 555. Plaintiff's allegations of a violation of the SWDA are purely conclusory and not entitled to acceptance by the Court.

The insufficiency of Plaintiff's allegation of a violation is further illustrated by comparing them with the promulgated regulations on notice. Federal regulations require that:

> "Notice regarding an alleged violation of any requirement prescribed by or under the Act shall include sufficient information to permit the recipient to **identify the specific requirement alleged to have been violated**, the activity alleged to constitute a violation, the person or persons responsible for the alleged violation, the location of the alleged violation, the date or dates of the alleged violation, and the full name, address, and telephone number of the person giving notice."

40 CFR 135.12(a) (emphasis added). This regulation creates the rule for sufficient notice of an alleged SWDA violation. Plaintiff's allegations do not meet this standard, and Plaintiff should be held to no lesser standard in a civil action. Plaintiff has thus failed to state a claim upon which relief can be granted. Dismissal of Counts I and II of Plaintiff's Complaint is therefore also warranted pursuant to Fed. R. Civ. P. 12(b)(6).

D. DISMISSAL OF COUNTS III AND IV IS WARRANTED BECAUSE THE SDWA IS A COMPREHENSIVE REMEDIAL SCHEME PRECLUDING PARALLEL CONSTITUTIONAL CLAIMS AND PLAINTIFF HAS THEREFORE FAILED TO STATE A CLAIM ON WHICH RELIEF CAN BE GRANTED

The Supreme Court of the United States has determined that a civil rights claim pursuant to 42 U.S.C. §1983 may be precluded by other Federal statutes. *Smith v Robinson*, 468 U.S. 992, 1009 (1984). To preclude a §1983 claim, the claims under both §1983 and the other Federal statute must be "virtually identical," and the other Federal statute must provide a scheme of remedies comprehensive enough to be exclusive. *Id.* Both conditions must be satisfied in order for a §1983 claim to be precluded. *Id.* The Sixth Circuit has not yet addressed whether the SDWA's civil cause of action precludes parallel claims under §1983.[1] However, the First Circuit

[1] The Sixth Circuit has determined that the whistleblower protections of the SDWA do not preclude a parallel §1983 claim for violations of First Amendment civil rights. *Charvat v. E. Ohio Reg'l Wastewater Auth.*, 246 F.3d 607, 614-

has examined this issue in detail and concluded that the SDWA preempts parallel §1983 claims. *Mattoon v. City of Pittsfield*, 980 F.2d 1, 5-6 (1st Cir. 1982). The First Circuit's analysis is sound and instructive.

The Supreme Court has held that §1983 suits can be precluded by other similar federal statutes. *See Middlesex County Sewarage Auth. v. Nat'l Sea Clammers Ass'n*, 453 U.S. 1, 20 (1981) (holding that §1983 claims are precluded by the Federal Water Pollution Control Act and the Marine Protection, Research, and Sanctuaries Act). In *Matoon*, the First Circuit held that, similar to the statutes examined in *Sea Clammers*, the SDWA (1) establishes an elaborate enforcement scheme, with rights of action on both government and private citizens; (2) civil actions can result in compelled compliance, compliance orders, and civil penalties; (3) states are invested with primary enforcement authority after the Administrator of the EPA determines that the state has adopted sufficient regulations and procedures; (4) private actions are allowed pertaining to the nationwide regulations and standards; and (5) citizens may initiate proceedings against violators as well as against the Administrator for failure to perform non-discretionary duties. *Mattoon* at 5-6. Using this analysis, the SDWA clearly provides a comprehensive scheme of remedies that should be considered exclusive.

The only remaining question is whether Plaintiff's claims under §1983 are "virtually identical" to their claims under the SDWA. Counts III and IV of Plaintiff's Complaint request that the Court "find that Plaintiffs (sic) have a liberty or property interest in safe drinking water, that Defendants have violated that right without due process of law . . ." Pl. Compl. at 16, 18. In comparison, Counts I and II of Plaintiff's Complaint ask the Court for a declaratory judgment in

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615 (6th Cir. 2001). However, the analysis was particular to the whistleblower section of the SDWA, 42 U.S.C. §300j-9, which is different from that of the civil action section relevant to this case. *See* 42 U.S.C. §300j-8.

regards to the alleged lack of safe drinking water provided by Flint, and injunctive and/or declaratory relief as regards to the same. Pl. Compl. at 13-15.

Except for artfully pleading a constitutional claim, Plaintiff's §1983 claims in Counts III and IV and its SDWA claims in Counts I and II are clearly identical, as both revolve around the alleged failure of Flint to provide safe drinking water to Plaintiff. The SDWA clearly provides a comprehensive remedial scheme. Counts III and IV of Plaintiff's Complaint fail to state a claim on which relief can be granted, because Plaintiff's §1983 claims are precluded by the SDWA. Dismissal of Counts III and IV is therefore warranted pursuant to Fed. R. Civ. P. 12(b)(6).

IV. CONCLUSION

Plaintiff's failure to provide the notice required by the SDWA deprives the Court of subject matter jurisdiction over Counts I and II, and dismissal of those counts, pursuant to Fed. R. Civ. P. 12(b)(1) is therefore required by Fed. R. Civ. P. 12(h)(3). In addition, Counts I and II fail to state a claim on which relief can be granted because they fail to allege which specific statutory or regulatory requirements were violated, warranting dismissal of Counts I and II pursuant to Fed. R. Civ. P. 12(b)(6). Counts III and IV are parallel Constitutional claims that are precluded by the SDWA and Plaintiff has failed to state a claim on which relief can be granted, warranting dismissal of those counts pursuant to Fed. R. Civ. P. 12(b)(6).

Respectfully submitted by

/s/ Anthony Chubb
Anthony Chubb (P72608)
CITY OF FLINT
Attorney for Defendants
1101 S. Saginaw Street, 3rd Floor
Flint, MI 48502
(810) 766-7146

Dated: June 23, 2015

CERTIFICATE OF SERVICE

I hereby certify that on June 23, 2015, I electronically filed the foregoing document with the Clerk of the Court using the ECF system.

/s/ Anthony Chubb
Anthony Chubb (P72608)

From: Muchmore, Dennis (GOV)
Sent: Tuesday, August 25, 2015 4:53 PM
To: Wurfel, Brad (DEQ); Hollins, Harvey (GOV)
Cc: Murray, David (GOV); Wurfel, Sara (GOV); Brown, Jessica (GOV)
Subject: RE: LeeAnn Walters Draft

Nicely done.

From: Wurfel, Brad (DEQ)
Sent: Monday, August 24, 2015 1:27 PM
To: Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>
Subject: FW: LeeAnn Walters Draft

Just a heads up, our Drinking Water Staff closing the loop with one of the participants from the meeting with the Flint Ministers regarding water quality issues in Flint. Some very worthwhile information here, and a heads up to everyone that this letter will be going to this individual.
Let me know if you have further questions, concerns, or other issues. Thanks!
b

From: Shekter Smith, Liane (DEQ)
Sent: Monday, August 24, 2015 10:37 AM
To: Wurfel, Brad (DEQ)
Cc: Devereaux, Tracy Jo (DEQ); Busch, Stephen (DEQ); Benzie, Richard (DEQ); Sygo, Jim (DEQ); Shaler, Karen (DEQ)
Subject: RE: LeeAnn Walters Draft

Brad – below is our draft response to Ms. Walters in followup to our meeting at the Governor's Office. Thought you might like to review the draft before we send it out. Also, is there anyone else that should see this before it is sent?

Dear Ms. Walters,

I wanted to update you regarding our Department's findings related to questions raised during our meeting at the Governor's office on August 4. I apologize for the delay in getting back to you.

Lead and Copper Monitoring

Regarding Flint lead and copper compliance monitoring for the January – June 2015 period, the City has confirmed that all lead and copper samples collected throughout the City, whether routine sites or customer requests, were sent to the State of Michigan lab for analysis. Individual sample results are provided to the property owner within 30 days of receiving the lab results in accordance with the Michigan Safe Drinking Water Act (Public Act 399, 1976 Administrative Rule 410(5). Results from the State of Michigan lab are provided directly to our Office.

Staff have confirmed that the lead 90th percentile compliance calculation of 11 parts per billion is based on 69 samples that met the appropriate sampling location site criteria, and met the sample collection site and collection protocol requirements of the Safe Drinking Water Act for this monitoring period. A minimum of 60 samples were required for this monitoring period. As indicated during the meeting, the City's sampling for lead complies with the Action Level

standard of 15 parts per billion, but based on the population served by the City and these results, the City will need to make a recommendation to the MDEQ on how they will fully optimize their corrosion control treatment. These next steps continue to follow the requirements of the Lead and Copper Rule.

Samples collected at your residence of **PPI** were not included this compliance determination as you utilize a whole home filter. As stated in the Michigan Safe Drinking Water Act (Public Act 399, 1976 Administrative Rule 710a, Lead and Copper in tap water; monitoring requirements) "Sampling sites may not include faucets that have point of use or point of entry treatment devices designed to remove inorganic contaminants." Such treatment alters the water chemistry and water quality such that it is no longer representative of public water from the City's distribution system. Therefore, the City cannot use samples collected at your residence as part of its determination for public water system compliance with the lead or copper action level standard.

Sample Summary (samples taken at your residence)

For your information, we are providing the information that we've gathered regarding samples collected at your home. Our records indicate between February and June of this year there were six samples collected by either you or Mr. Mike Glasgow with the City of Flint, and submitted to the State Laboratory for analysis as follows:

February 11, Bathroom tap, collected at 10:20 AM by Mike Glasgow. This sample was analyzed for aesthetic metals (copper, iron, manganese, and zinc) which does not include lead analysis.

February 18, Kitchen tap, collected at 7:15 AM by you. This sample was analyzed for lead (104 parts per billion) and copper (non-detect).

February 25, Kitchen tap, collected at 10:26 AM by Mike Glasgow. This sample was analyzed for metals including lead. All results (including lead) were non-detect except for Barium 0.01 parts per million. The result for Barium was well below its maximum contaminant level of 2 parts per million.

March 3, Kitchen tap, collected at 6:00 AM by you. This sample was analyzed for lead (397 parts per billion) and copper (non-detect).

March 18, Kitchen tap, collected at 11:10 AM by Mike Glasgow. This sample was analyzed for lead (4 parts per billion) and copper (non-detect).

April 2, Pre-point of service, collected at 8:00 AM by you. This sample was analyzed for lead (707 parts per billion) and copper (110 parts per billion).

Lead Education/Outreach

As we discussed during the meeting, we support efforts to educate homeowners about the sources of lead in their private residence, provide guidance measures to reduce the potential for lead exposure, and provide information on resources for lead abatement. Along those lines, our Office has been in contact with the Department of Health and Human Services, Environmental Health Division, Healthy Homes Section and had some preliminary discussions about a public education and assistance campaign regarding household lead issues, guidance and abatement.

Lead monitoring by public water systems serves a dual purpose. The first purpose is to ensure the public water supply is adequately treating its water to address corrosion potential and help limit lead exposure. The second purpose is to inform homeowners about lead levels within their individual residence so that they can make educated choices regarding their own exposure risk.

pH Results

During the meeting concerns were also expressed regarding pH levels within customer plumbing systems. As you may know, pH has no associated contaminant level as it is simply a numeric scale used to specify the acidity or alkalinity of a solution. The City of Flint conducts daily monitoring of pH values on both its raw and finished (treated) water at the City's water treatment plant as part of its operations. The City is also required to conduct water quality parameter monitoring in the distribution system, which includes pH. Samples are analyzed in accordance with Standard Methods using properly calibrated analytical equipment. Results for pH from these samples are summarized below.

Since late April 2014 – June 2015, the following pH conditions were reported:

Water Treatment Plant – Finished Water plant tap pH range = 7.07 minimum to 9.9 maximum, overall average 7.7, measured daily. We believe the 9.9 is a one- time anomaly from softening treatment.

Distribution System – Water Quality Parameters taken from 25 sample sites located throughout and monitored quarterly
July – Sept. 2014: pH 7.71 average, range 7.56 – 7.86
Oct. – Dec. 2014: pH 7.88 average, range 7.62 – 8.10
Jan. – March 2015: pH 7.81 average, range 7.60 – 7.99
April – June 2015: pH 7.63 Average, range 7.48 – 7.80

In addition, the City's treated water contains alkalinity, which is a measurement of the buffering capacity of water to resist a change in pH. As you can see from the water quality parameter monitoring results above there has been very little change in pH within the City's distribution system. The pH levels described within customer site piping or premise plumbing systems are believed to be the result of onsite treatment and not representative of water quality shown to be occuring in the public water supply system.

Consumer Confidence Report

Finally, there was confusion during the meeting regarding the City's annual water quality report, the Consumer Confidence Report which we have since been able to clarify.

The City of Flint issued two separate Consumer Confidence Reports (CCR's) in 2015 covering the water quality data from 2014. One report was for the period of January – April 2014 when the City was obtaining water from Detroit (DWSD). And a second report was for the period April – December 2014 when the City was using the Flint River and its own Water Treatment Plant.

The CCR for DWSD water was mailed to customers in June. The Flint River based CCR was mailed to customers in mid-July, delayed due to issues with the printing contractor. We agree that having two separate reports caused confusion. We are working with the City to ensure both reports are posted to the City's website and both are made available when requested by customers. Should the City choose to create separate CCR's during the year that the City of Flint connects to the Karegnondi Water Authority we will work with the City to provide more clarity and try to have all material included in a single mailing.

The DWSD based CCR is the one community members had at the meeting, while the DEQ brought a copy of the Flint River based CCR. As separate and distinct sampling was done under each source, this explains the discrepancy in the values and monitoring periods being reported in the respective CCR's.

We appreciate your interest in these matters and hope this has addressed many of the questions brought up during our meeting. I would like to provide this information to both Dr. Sullivan and Ms. Mayes, but I do not have their contact information. I'm hoping you can share this with them and any others that may be interested.

Sincerely,

From: Wurfel, Brad (DEQ)
Sent: Thursday, September 03, 2015 12:28 PM
To: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: FW: lead in flint water

From: Wurfel, Brad (DEQ)
Sent: Wednesday, September 02, 2015 3:28 PM
To: 'Ronald Fonger'
Subject: RE: lead in flint water

Here's a response from the DEQ. Attribute to me. Call me if you have further questions. Thanks, Ron. b

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713
PPI -cell

We are aware that Virginia Tech researchers are now testing water at various Flint homes for lead levels. We appreciate that Virginia Tech's team is working on this issue because it brings the public spotlight on an important fact: if you have lead water pipes or plumbing fixtures containing lead in your home, or a lead service connection to the city system, it is very likely you are ingesting some level of lead. That's just a fact. It's true whether you live in Detroit, Dowagiac or Decatur.

And in the City of Flint, that fact affects 15,000 or more residences.

However, we want to be very clear that the lead levels being detected in Flint drinking water are not coming from the treatment plant or the city's transmission lines. Treated water leaving the plant has no detectable levels of lead in it. The issue is how, whether, and to what extent the drinking water is interacting with lead plumbing in people's homes.

It does not appear the Virginia Tech research lab is certified, and we can't speak to the sampling methods being employed to achieve these results. The results reported so far fail to track with any of the lead sampling conducted by the city. In addition, the Virginia Tech results are not reflected by the blood lead level testing regularly conducted by the state department of community health that have not shown any change since Flint switched sources.

The state's compliance monitoring program requires the city to use certified laboratories and a standardized, federal testing protocol that looks specifically at the homes in communities most likely to experience lead problems. The latest results from Flint, obtained from two separate rounds of testing over the past year, indicated that Flint drinking water, meets state and federal safe drinking water standards for lead.

That said, the state has requested Flint to 'optimize' its water treatment to further limit exposure to lead from plumbing in homes. While statute allows several years for a drinking water system to actually undertake this process – Detroit took five years to complete its water optimization work – we are encouraging Flint water system operators to take these steps immediately and we are encouraged by the conversation so far.

Any resident who has concerns about lead in their drinking water should have their water tested at a certified laboratory and get professional consultation on how to address it. The leading cause of lead poisoning is known to be lead paint and, in some areas, environmental legacy hot spots where lead is present in soils. However, I will say it again: when homes are fitted with lead plumbing or plumbing fixtures containing lead, homeowners should assume there is some varied level of interaction between water and pipes that results in lead exposure.
b

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Wednesday, September 02, 2015 11:40 AM
To: Wurfel, Brad (DEQ)
Subject: RE: lead in flint water

Brad:
If needed, here is the link to what's been posted today.
I spoke with Dr. Marc Edwards, who is overseeing the research.
http://flintwaterstudy.org/

Ron Fonger
MLive Media Group
Reporter

mobile [PPI]
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Brad (DEQ) [mailto:WurfelB@michigan.gov]
Sent: Wednesday, September 02, 2015 11:37 AM
To: Ronald Fonger
Subject: RE: lead in flint water

Ron, thank you for reaching out. We definitely want to clarify some important points here. Give me a few to read this and pull together some stuff for you.
Again, THANKS!!!
b

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Wednesday, September 02, 2015 11:34 AM
To: Wurfel, Brad (DEQ)
Cc: Kristin Longley; Bryn Mickle
Subject: lead in flint water

Brad:
I left a message with Mike Prysby on Tuesday, Sept. 1, but wanted to reach out to you also because of stories we are working on about the extent to which lead is becoming an issue in Flint drinking water.
Today, Sept. 2, researchers at Virginia Tech posted the results on an experiment with Flint water online. The report concludes that Flint River water leaches much more lead from plumbing than does Detroit.
"On average, Detroit water is 12 times (or 12X) less corrosive than the Flint River water currently in use … This is creating a public health threat in some Flint homes that have lead pipe or lead solder," the report says.
An earlier post by the same researchers says that initial water tests show "a serious lead in water problem" in Flint, partly because Flint River water is so corrosive to pipes.
Given the state's role in oversight of the city's drinking water system through DEQ and its overall oversight by state emergency managers during the past several years, I wanted to make sure I'm reaching out to the right person to respond to this information.
Could you let me know who that is?
I expect to post the first story about the experiment today and expect the issue will be getting more attention as the VT study of 300 water test kits from Flint is completed.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Brad (DEQ)
Sent: Tuesday, September 08, 2015 1:28 PM
To: Shekter Smith, Liane (DEQ); Busch, Stephen (DEQ); Benzie, Richard (DEQ)
Cc: Muchmore, Dennis (GOV); Murray, David (GOV); Brown, Jessica (GOV); Wurfel, Sara (GOV)
Subject: FW: flint water

Heads up, Fonger's on a tight turnaround for this. I've not yet seen it -- state server blocks access.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Tuesday, September 08, 2015 11:39 AM
To: Wurfel, Brad (DEQ)
Subject: flint water

Brad:
This was posted by the Virginia Tech researchers this morning.
Since a part of it speaks directly to MDEQ's involvement in the Flint water situation, I wanted to see if we can get a comment from you for an initial story that I hope to post in about two hours.
Thanks,
http://flintwaterstudy.org/2015/09/our-sampling-of-252-low-risk-homes-demonstrates-a-high-lead-in-water-risk-flint-should-be-failing-to-meet-the-epa-lead-and-copper-rule/

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Brad (DEQ)
Sent: Tuesday, September 08, 2015 2:24 PM
To: Murray, David (GOV); Brown, Jessica (GOV); Wurfel, Sara (GOV)
Cc: Muchmore, Dennis (GOV)
Subject: FW: flint water

Mr. Edwards with Virginia Tech posted some pretty irresponsible stuff on his site today. The Flint Journal asked for our perspective.

We were holding off last week. That has officially ended.

Let me know if you have questions or concerns. Thanks!
b.

From: Wurfel, Brad (DEQ)
Sent: Tuesday, September 08, 2015 2:20 PM
To: 'Ronald Fonger'
Cc: Busch, Stephen (DEQ)
Subject: RE: flint water

Ron,

As we discussed last week, the state DEQ is just as perplexed by Edwards' results as he seems to be by the city's test results, which are done according to state and federal sampling guidelines and analyzed in certified labs.

When I said we were unsure how the Virginia Tech team got its results, that's not the same as being surprised that they got them. There are a conservatively estimated 15,000 old homes with lead plumbing in Flint alone, and this group specializes in looking for high lead problems. They pull that rabbit out of that hat everywhere they go. Nobody should be surprised when the rabbit comes out of the hat, even if they can't figure out how it is done.

It's scientifically probable a research team that specializes in looking for lead in water could have found it in Flint when the city was on its old water supply. We won't know that, because they've only just arrived in town and quickly proven the theory they set out to prove, and while the state appreciates academic participation in this discussion, offering broad, dire public health advice based on some quick testing could be seen as fanning political flames irresponsibly. Residents of Flint concerned about the health of their community don't need more of that.

As I mentioned last week, the issue here isn't Flint's water source or water plants. It's the high number of older homes with lead pipes and lead service connections. Anyone with lead plumbing in their homes should recognize there's some communication of lead from that.

The state and the EPA are working together in Flint -- have been from the start, and we are in regular communication with federal counterparts to discuss Flint water. The state's program has been in place, protecting community water supplies for more than 40 years around the state. The reason this conversation began is because we have lead and copper rules; the city met the state and federal

standard, and has agreed to further optimize its system to even further reduce lead levels, but let's be clear: lead pipes means some lead in water, at some level. Folks who have concerns should get a water specialist to take a look at their home and see what they need to do to achieve peace of mind, because lead and copper are home plumbing problems that no water source can eliminate entirely.

b

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713
PPI cell

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Tuesday, September 08, 2015 11:39 AM
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Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Muchmore, Dennis (GOV)
Sent: Tuesday, September 08, 2015 3:00 PM
To: Wurfel, Brad (DEQ); Murray, David (GOV); Brown, Jessica (GOV); Wurfel, Sara (GOV)
Subject: RE: flint water

Respond in kind…

From: Wurfel, Brad (DEQ)
Sent: Tuesday, September 8, 2015 2:24 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>; Wurfel, Sara (GOV) <WurfelS@michigan.gov>
Cc: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: FW: flint water

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b

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713
PPI cell

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Subject: flint water

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Since a part of it speaks directly to MDEQ's involvement in the Flint water situation, I wanted to see if we can get a comment from you for an initial story that I hope to post in about two hours.
Thanks,
http://flintwaterstudy.org/2015/09/our-sampling-of-252-low-risk-homes-demonstrates-a-high-lead-in-water-risk-flint-should-be-failing-to-meet-the-epa-lead-and-copper-rule/

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Monday, September 14, 2015 9:09 AM
Subject: PRESS RELEASE: Special Presentation to City Council on Water
Attachments: City Council Meeting Water Presentation 9.14.15.pdf

For Immediate Release

Special Presentation to City Council on Water to be Included in City Council Meeting Agenda for Monday, September 14, 2015

Flint, Michigan – September 14, 2015 – The agenda for the regular City Council meeting scheduled for Monday, September 14, 2015 at 6:00pm will include a special presentation to update residents on water. The presentation will include the steps taken thus far to address the quality, safety and affordability of the water as well as upcoming plans to make improvements to the water system. This is a public meeting and residents are encouraged to attend.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI (Cell)
jlorenz@cityofflint.com

Dayne Walling
Mayor

Natasha L. Henderson
City Administrator

Jason Lorenz
Public Information Officer
Office: (810) 237-2039
Cell: PPI
jlorenz@cityofflint.com

For Immediate Release

Special Presentation to City Council on Water to be Included in City Council Meeting Agenda for Monday, September 14, 2015

Flint, Michigan – September 14, 2015 – The agenda for the regular City Council meeting scheduled for Monday, September 14, 2015 at 6:00pm will include a special presentation to update residents on water. The presentation will include the steps taken thus far to address the quality, safety and affordability of the water as well as upcoming plans to make improvements to the water system. This is a public meeting and residents are encouraged to attend.

–END–

From: Muchmore, Dennis (GOV)
Sent: Tuesday, September 22, 2015 3:16 PM
To: Wurfel, Brad (DEQ); Murray, David (GOV); Wurfel, Sara (GOV); Wyant, Dan (DEQ)
Cc: Hollins, Harvey (GOV)
Subject: RE: DEQ Flint water docs

Should we ask one of our own Professors to comment on this article and the testing...

From: Wurfel, Brad (DEQ)
Sent: Tuesday, September 22, 2015 8:13 AM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Subject: Fwd: DEQ Flint water docs

Some necessary info RE Flint. One is a Q&A we developed. Other is from DHHS -- spreadsheet on blood lead levels in kids.
Call me with questions. Thanks.

b

Brad Wurfel

Communications Director

Michigan Department of Environmental Quality

517-284-6713

PPI cell

From: Hollins, Harvey (GOV)
Sent: Thursday, September 24, 2015 12:03 PM
To: Murray, David (GOV)
Cc: Wurfel, Sara (GOV); Clayton, Stacie (GOV); Muchmore, Dennis (GOV)
Subject: Re: New ACLU video gets tough with Flint officials over lead levels | Blogs | Detroit Metro Times

Senator Ananich has formed a new coalition to speak on the water issues in Flint. Hurley hospital will be a member of that coalition. This coalition may be competitive with the existing Clean Water Coalition where a lot of the grassroots types participate. Hurley will also work to get more residents water filters, and that may be apart of the announcement today.

> On Sep 24, 2015, at 11:37 AM, Murray, David (GOV) <MurrayD1@michigan.gov> wrote:
>
> Harvey,
>
> We're hearing from MLive that Hurley Hospital has called a 3 p.m. press conference to discuss the lead levels in blood collected from children. I'm working to get the report from Hurley ASAP. Working with Geralyn on a response.
>
> Dave
>
> -----Original Message-----
> From: Hollins, Harvey (GOV)
> Sent: Thursday, September 24, 2015 11:36 AM
> To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
> Cc: Clayton, Stacie (GOV) <claytons3@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>
> Subject: Re: New ACLU video gets tough with Flint officials over lead levels | Blogs | Detroit Metro Times
>
> Sarah--per our discussion yesterday, what is the status of announcing the DEQ action to address the water quality in Flint?
>
> -HH
>
>> On Sep 24, 2015, at 11:03 AM, Clayton, Stacie (GOV) <claytons3@michigan.gov> wrote:
>>
>>
>> http://m.metrotimes.com/Blogs/archives/2015/09/23/new-aclu-video-gets-tough-with-flint-officials-over-lead-levels
>>
>>
>> Stacie Clayton
>> Sent from my iPhone

From: Murray, David (GOV)
Sent: Tuesday, September 29, 2015 4:43 PM
To: Wurfel, Sara (GOV)
Subject: FW: flint water

From: Murray, David (GOV)
Sent: Tuesday, September 29, 2015 4:27 PM
To: 'Egan, Paul' <pegan@freepress.com>
Subject: RE: flint water

Paul, between you and me, we have concerns about the MLive story. I'm happy to give you the information first hand.

The administration has worked closely with the Concerned Pastors group on the water issue, and the members are passionate about supporting their parishioners and the Flint community as a whole. We certainly share their concern that everyone in Flint should have safe, clean water. Flint water does meet state and federal safety standards. People have complained about the color and the odor, and faucet filters will help with those challenges as well as improving water quality overall.

About two months ago, the governor's office worked with a corporate donor to provide 1,500 of the faucet filters. We're appreciative of the efforts of the donor, which didn't want recognition. We respect those wishes. We are talking with other businesses and groups that might be able to expand the effort.

We worked with the pastors group to distribute the filters, and asked that members respect the donor's wishes not to be identified. We told the group that were not looking for credit, and appreciated the pastors' efforts in working with the community.

The governor continues to work with state, federal and city staff members and agencies on a variety of steps to build upon what we've already done to help Flint city leaders with their water infrastructure challenges.

Dave

From: Egan, Paul [mailto:pegan@freepress.com]
Sent: Tuesday, September 29, 2015 4:21 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: flint water

Hi Dave, since you were the source on this, can you please confirm what Mlive reports about governor's role in getting the water filters to Flint, and could you please give me a quote about that I can add to my story?

Thanks, Paul

From: Stanton, Terry A. (Treasury)
Sent: Wednesday, September 30, 2015 6:49 PM
To: Wurfel, Sara (GOV); Wurfel, Brad (DEQ)
Cc: Murray, David (GOV)
Subject: RE: Grant

I don't recall either grant being related to "the existence of lead and copper pipes, and the impact…of Flint River water" (Nancy's words) as neither had surfaced as an issue that I am aware of. Brad?

The grants…which the City submitted applications for (which I do not have access to tonight)…were to be used for exactly what was described in the Gov's release:

$1.1 million for water system enhancement through improved waste management and $900k for system enhancement through leak detection and pipe assessments.

The other $2.24 million you are asking about came from the state-approved (Treasury & DEQ) restructuring of Flint's Drinking Water Revolving Fund loans. The restructuring saved the city the $2.24m…with $1.5m used to pay for the installation of a Granulated Active Charcoal filter (GAC) at the Water Treatment Plant.

Below is a section from the Flint Water TPs distributed in late January-early February 2015.

The City has received significant financial assistance through both grant programs and bond restructuring initiatives administered by the MI Department of Treasury. This financial assistance has allowed the City to replace miles of aged pipeline and begin efforts to install a specialized filter at the Water Treatment Plant.

In February, Flint was awarded a total of $2 million through two Financially Distressed Cities, Villages, and Townships Grants. $1.1 million was awarded for water system enhancements through improved waste management while $900,000 was awarded for water system enhancements through leak detection and pipe assessments.

On April 8th, the City announced that it was moving forward with a series of actions to ensure the continued safety of Flint drinking water and address issues of discoloration and odor. The most significant step will be the installation of a Granulated Active Charcoal filter (GAC) at the Water Treatment Plant. The GAC filter will help block or eliminate the formation of TTHM during the filtration process.

A contract for the filter installation was approved by the State Treasurer with the project targeted for completion by mid-July. The $1.5 million project will be funded with proceeds from the state-approved restructuring of Flint's Drinking Water Revolving Fund loans ($2.24 million).

The City is undertaking a number of other improvements to the water system including the acceleration of valve replacements, targeted hydrant flushing, the replacement of two miles of water main in a critical area of the city, and acceleration of the project to automate plant operations.

From: Wurfel, Sara (GOV)
Sent: Wednesday, September 30, 2015 6:26 PM
To: Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: FW: Grant
Importance: High

Who can answer this STAT?

From: Kaffer, Nancy [mailto:nkaffer@freepress.com]
Sent: Wednesday, September 30, 2015 6:17 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: Grant

I'm a little confused about this press release … it sounds like the majority of that grant is to replace an incinerator, and $900k is create a map of leaks in pipes so that the city can prioritize repair, and provide a pipe thickness assessment that will contribute to the city's water main replacement program … was any of this directly prompted by the existence of lead and copper pipes, and the impact to those pipes of the more-corrosive Flint River water?

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Wednesday, September 30, 2015 6:04 PM
To: Kaffer, Nancy <nkaffer@freepress.com>
Subject: Grant
Importance: High

Here's one example of the funding that has been allocated:

http://www.michigan.gov/snyder/0,4668,7-277-57577_57657-346722--,00.html

From: Stanton, Terry A. (Treasury)
Sent: Wednesday, September 30, 2015 7:10 PM
To: Wurfel, Sara (GOV)
Subject: FW: PRESS RELEASE: EM Authorizes DWRF Bond Restructuring
Attachments: DWRF Bond Restructuring.pdf

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Thursday, March 19, 2015 12:16 PM
Subject: PRESS RELEASE: EM Authorizes DWRF Bond Restructuring

Flint Emergency Manager Authorizes Bond Restructuring to Afford Additional $2.24 Million toward Capital Improvements in Water

Flint, Michigan – March 19, 2015 – Flint Emergency Manager Jerry Ambrose today authorized a restructuring of four outstanding Drinking Water Revolving Fund (DWRF) bonds to allow postponing current principal payments in the total amount of $2.24 million. This action will allow the $2.24 million budgeted for debt service to be utilized for expenses associated with maintaining safety and improving quality of the Flint water supply. Approval of the State Treasurer is required before the restructuring can occur.

Flint has recently received a final report from Veolia, its water expert advisor, making a series of recommendations to maintain and improve the Flint water supply. These recommendations, and other items identified in the City's current capital improvements plan, will be considered as the City develops and implements its action plan to maintain and improve the Flint water supply. Discussion on the development of the action plan will begin today, March 19, 2015 at the Water Advisory Committee meeting, scheduled to begin at 2:00 pm at the Flint Public Library.

The State of Michigan was instrumental in allowing the restructuring, as approvals are required by both the State Treasurer and the Director of the Michigan Department of Environmental Quality. "At all levels, the State of Michigan has been most cooperative in assisting the City of Flint as it addresses the many issues confronting the Flint water system", said Ambrose. "Access to $2.24 million at this time will be very helpful in moving forward with our action plan."

The proposed restructuring will free up funds to enable the City to more quickly begin implementing recommended improvements to its water treatment and distribution system. Several recommendations for

improvement are currently unbudgeted and the $2.24 million will help assure that the most important can be performed.

Recommendations to be considered include the addition of a Granulated Activated Carbon Filter, estimated at as much as $1.5 million; acceleration of the repair and replacement of values, estimated at an additional $120,000 annually; additional pipeline replacement, estimated at $1 million per mile; and acceleration of the project to automate plant operations, estimated at $450,000. $1.315 million will become available in the City's current fiscal year, and the remaining $925,000 will be available in the next fiscal year.

The bonds are currently financed at a rate of 2.5%, and postponement of the principal payment will incur some additional interest expense over the life of the issue. While the interest rate will not increase, the total interest cost will increase by approximately 2% ($228,000) over the 20 year life of the issues.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

Gerald Ambrose
Emergency Manager

Dayne Walling
Mayor

Jason Lorenz
Public Information Officer
(810) 237-2039
jlorenz@cityofflint.com

For Immediate Release

Flint Emergency Manager Authorizes Bond Restructuring to Afford Additional $2.24 Million toward Capital Improvements in Water

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–CONTINUE–

Gerald Ambrose
Emergency Manager

Dayne Walling
Mayor

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The bonds are currently financed at a rate of 2.5%, and postponement of the principal payment will incur some additional interest expense over the life of the issue. While the interest rate will not increase, the total interest cost will increase by approximately 2% ($228,000) over the 20 year life of the issues.

–END–

From: Paciorek, Josh (GOV)
Sent: Thursday, October 01, 2015 4:46 PM
To: Minicuci, Angela (DHHS)
Cc: Eisner, Jennifer (DHHS); Wurfel, Sara (GOV)
Subject: RE: Lead Information for Flint Water Website

Fantastic! I'll send this over to our web team and make sure this is part of the page.

From: Minicuci, Angela (DHHS)
Sent: Thursday, October 01, 2015 4:44 PM
To: Paciorek, Josh (GOV) <Paciorekj@michigan.gov>
Cc: Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>
Subject: Lead Information for Flint Water Website

Hi Josh,

Attached are a few documents, and below is the text that you can use for the Flint Water website. We may have one more document coming but for the time being, this is it:

Lead Poisoning Prevention and Reducing Exposure Risks

Parent Handbook: Is Your Child Safe From Lead Poisoning?
Blood Lead Level (BLL) Quick Reference for Primary Care Providers
Lead Screening & Testing for Safe, Healthy Michigan Kids

Lead exposure can occur from a number of different sources (such as paint, gasoline, solder, and consumer products) and through different pathways (such as air, food, water, dust, and soil). Although there are several exposure sources, lead-based paint is still the most widespread and dangerous high-dose source of lead exposure for young children in the US and Michigan. In housing built before 1978, it can be assumed that the paint in the home has lead unless tests show otherwise. To reduce lead exposure in your home, there are a number of steps you can take.

- Make sure your child does not have access to peeling paint or chewable surfaces painted with lead-based paint.
- Children and pregnant women should not be present in housing built before 1978 that is undergoing renovation. They should not participate in activities that disturb old paint or in cleaning up paint debris after work is completed.
- Create barriers between living/play areas and lead sources. Until environmental clean-up is completed, you should clean and isolate all sources of lead.
    - Close and lock doors to keep children away from chipping or peeling paint on walls. You can also apply temporary barriers such as contact paper or duct tape, to cover holes in walls or to block children's access to other sources of lead.
- Regularly wash children's hands and toys. Hands and toys can become contaminated from household dust or exterior soil. Both are known lead sources.
- Regularly wet-mop floors and wet-wipe window components. Because household dust is a major source of lead, you should wet-mop floors and wet-wipe horizontal surfaces every 2-3 weeks.
    - Windowsills and wells can contain high levels of leaded dust. They should be kept clean. If feasible, windows should be shut to prevent abrasion of painted surfaces or opened from the top sash.
- Take off shoes when entering the house to prevent bringing lead-contaminated soil in from outside.

- Prevent children from playing in bare soil; if possible, provide them with sandboxes. Plant grass on areas of bare soil or cover the soil with grass seed, mulch, or wood chips, if possible.
    - Until the bare soil is covered, move play areas away from bare soil and away from the sides of the house. If you have a sandbox, cover the box when not in use to prevent cats from using it as a litter box. That will help protect children from exposure to animal waste.
- Avoid using makeup, containers, cookware, or tableware to store or cook foods or liquids that are not shown to be lead free.
- Remove recalled toys and toy jewelry immediately from children.
- Use only cold water from the tap for drinking, cooking, and making baby formula. Hot water is more likely to contain higher levels of lead. Most of the lead in household water usually comes from the plumbing in your house, not from the local water supply.
- Shower and change clothes after finishing a task that involves working with lead-based products such as stained glass, making bullets, or using a firing range.

Thank you,

Angela Minicuci
Office of External Relations and Communications
Michigan Department of Health and Human Services
Office: (517) 241-2112
Mobile: PPI
minicuci@michigan.gov
www.michigan.gov/mdhhs

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From: Tommasulo, Karen (DEQ)
Sent: Thursday, October 01, 2015 5:12 PM
To: Wurfel, Sara (GOV); Wurfel, Brad (DEQ); Murray, David (GOV); Pallone, Maggie (DEQ); Wyant, Dan (DEQ)
Subject: media q&a
Attachments: Media Q&A.docx

Here's the media Q&A as it stands. The first several have written responses, but there's a large list at the end that do not.

Karen Tommasulo
Public Information Officer
Michigan Department of Environmental Quality
517-284-6716 | 517-599-5733
tommasulok@michigan.gov

Flint Drinking Water
Media Q&A

Is the city going back to DWSD?
That's something we're leaving open. It's certainly an option, but there are no moves at this time to do so. If it becomes something city leadership is interested in doing, the state is willing to act as a facilitator between Flint and DWSD to help come to conclusion that's best for the residents of Flint.

How did the state not see or fix this problem sooner?
Right now, we're focusing on addressing the problem at hand. Every household in the city of Flint is going to receive a water filter. The Flint Water Treatment Plant is going to fully optimize its corrosion controls by Nov. 1. And we're going to accelerate water system improvements to address the replacement of lead service lines.

In the long term, we will work with the U.S. EPA to look at water testing protocol.

Is the water safe?
The water leaving the Flint Water Treatment Plant is safe to drink and meets federal guidelines for lead. However, we recognize some residents experience higher levels of lead in the water that comes out of their faucets because of lead plumbing in the home. We will expand water testing to better determine which areas have a problem; however, in the meantime, every home will receive a filter to ensure their drinking water is safe.

Does this mean Marc Edwards was right?
We aren't familiar with his testing protocol and have not seen his data. All we know is the state's data and the data Hurley Medical Center provided indicate a need to take action.

Why didn't you require corrosion controls from day one?
When the city switched water sources, they did begin using lime softening as a corrosion control. DWSD used phosphates, which is another form of corrosion control, but far from the only one. Flint was within federal protocols when it chose to use lime, and this is consistent with what every other community was required to do.

With more data in hand, the city can now work to optimize their corrosion control system, and has pledged to do so by Nov. 1.

How do you feel about the state and federal testing protocols now that you know there was a problem?
We're going to be taking a look at that, because what weren't seeing is concerning. But in the meantime, we're going to…

Why are you requiring optimization now?
What will you do if the schools you are testing come back with lead?
Is the Governor going to give the city the $30 million it asked for? Or the $13 million state Sen. Ananich wants to include in the budget?
Why did the Governor and the state ignore city residents who have been saying there's a problem for six months?
Why did the Governor hide the fact that he was involved in distributing filters previously?
Will you meet with Marc Edwards?
Do you trust the city's data?
Why did the Governor allow the city to switch away from DWSD initially?
Has the city/Governor put residents at risk?
What will the state do about my children? Lead poisoning causes irreversible damage.
Is lead just a problem in Flint?
Why isn't the Governor here today?
Does the Flint River have lead? Is it more corrosive than the water from DWSD?
If the lead is in individual homes' plumbing, how long will it take to fix this problem? Will the move to KWA fix it, or will we still see lead?
Will testing start over when we move to KWA?
Why aren't Kildee and Ananich here?
How much are we paying all these new consultants – Dr. Wells and the EPA expert?
Did the DEQ provide any advice to the emergency manager about the switch from DWSD?
How long has lead been a problem in Flint? If the problem is in people's home, does that mean they have always been poisoned by this?
Why aren't you declaring a state of emergency?
Why aren't you providing bottled water?
How long does it take for the system to be fully optimized once the corrosion control treatment begins?

From: Minicuci, Angela (DHHS)
Sent: Thursday, October 01, 2015 5:27 PM
To: Paciorek, Josh (GOV)
Cc: Eisner, Jennifer (DHHS); Wurfel, Sara (GOV)
Subject: RE: Lead Information for Flint Water Website
Attachments: breastfeedingandlead3 (2).pdf

Last document attached. Text to link:

Pregnant and Nursing Mothers: What You Need to Know

Angela

From: Paciorek, Josh (GOV)
Sent: Thursday, October 01, 2015 4:46 PM
To: Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>
Cc: Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: Lead Information for Flint Water Website

Fantastic! I'll send this over to our web team and make sure this is part of the page.

From: Minicuci, Angela (DHHS)
Sent: Thursday, October 01, 2015 4:44 PM
To: Paciorek, Josh (GOV) <Pacioreki@michigan.gov>
Cc: Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>
Subject: Lead Information for Flint Water Website

Hi Josh,

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Parent Handbook: Is Your Child Safe From Lead Poisoning?
Blood Lead Level (BLL) Quick Reference for Primary Care Providers
Lead Screening & Testing for Safe, Healthy Michigan Kids

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    - Until the bare soil is covered, move play areas away from bare soil and away from the sides of the house. If you have a sandbox, cover the box when not in use to prevent cats from using it as a litter box. That will help protect children from exposure to animal waste.
- Avoid using makeup, containers, cookware, or tableware to store or cook foods or liquids that are not shown to be lead free.
- Remove recalled toys and toy jewelry immediately from children.
- Use only cold water from the tap for drinking, cooking, and making baby formula. Hot water is more likely to contain higher levels of lead. Most of the lead in household water usually comes from the plumbing in your house, not from the local water supply.
- Shower and change clothes after finishing a task that involves working with lead-based products such as stained glass, making bullets, or using a firing range.

Thank you,

Angela Minicuci
Office of External Relations and Communications
Michigan Department of Health and Human Services
Office: (517) 241-2112
Mobile: PPI
minicuci@michigan.gov
www.michigan.gov/mdhhs

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PREGNANT AND NURSING MOTHERS

WHAT YOU NEED TO KNOW ABOUT LEAD POISONING

What causes lead poisoning?

There are many factors that can put a pregnant woman or nursing mother at risk for lead poisoning.

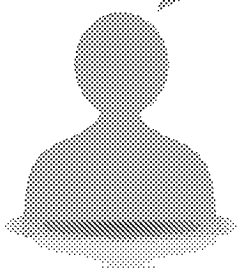
In Michigan, lead paint is still the #1 cause of lead poisoning. It is often found in homes built before 1978 and the older the home, the more likely that painted surfaces like windows, cupboards, doors and porches will contain lead paint.

Other sources of exposure may include soil and water or jobs and hobbies using lead such as factory work, soldering, ammunitions or jewelry making. Some pottery glazes, imported spices and home remedies may also contain lead.

Should I get tested?

Routine blood testing is NOT recommended for all pregnant women or nursing mothers. Talk to your doctor or local health department to learn more.

If I test positive for lead poisoning, can I continue to breastfeed?



In most cases, breastfeeding is safe. However, if your blood lead level goes above 40 ug/dl *or* your level is greater than 20 ug/dl and your baby has a level above 5 ug/dl, you should talk with your doctor about continuing to breastfeed.

Childhood LEAD POISONING prevention program

What can I do to protect myself from lead?

- Wash hands, bottles, pacifiers and toys often.
- Always take off shoes before going into the house.
- Flush your pipes before drinking, and only use cold water for drinking or mixing formula. Flush pipes by running the water for approximately 5 minutes.
- Watch your diet carefully. Foods high in calcium and iron help keep lead from being absorbed by your body.
- Avoid using power sanders, open-flame torches, heat guns, dry scrapers and dry sandpaper on painted surfaces.
- Fix peeling or chipping paint.
- Use a certified Repair and Remodeling Professional when making updates to your home.
- Practice safe cleaning methods.

To learn more about lead poisoning prevention and blood lead testing, call:

(888) 322-4453

MDHHS

Michigan Department of Health & Human Services

GRETCHEN WHITMER, GOVERNOR | NICK LYON, DIRECTOR

From: Lange, Michelle (GOV)
Sent: Friday, October 02, 2015 8:23 AM
To: Wurfel, Sara (GOV)
Subject: RE: HIGH PRIORITY: Updated Flint water action plan

Good morning- just went through it, doesn't look like you need leg to make any calls, but wanted to double check in case I'm missing something.

Thanks!

M.

From: Wurfel, Sara (GOV)
Sent: Thursday, October 1, 2015 11:42 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Posthumus, Dick (GOV) <Posthumusd@michigan.gov>; Walsh, John (GOV) <WalshJ@michigan.gov>; Priest, Chris (GOV) <PriestC1@michigan.gov>; Ackerman, Darin (GOV) <ackermand3@michigan.gov>; Lange, Michelle (GOV) <LangeM3@michigan.gov>; Mcbride, Bill (GOV) <mcbrideb@michigan.gov>; Brown, Eric (GOV) <BrownE15@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>
Cc: Wisniewski, Wendy (GOV) <wisniewskiw@michigan.gov>; Clayton, Stacie (GOV) <claytons3@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>; Paciorek, Josh (GOV) <Paciorekj@michigan.gov>
Subject: HIGH PRIORITY: Updated Flint water action plan
Importance: High

Hi all –

Attached are several items pulled together to help announce the new comprehensive action plan related to Flint water tomorrow. This build upon past efforts and as aimed to be a real collaborative effort with local, state and federal agencies, along with city and community leaders. These items are:

- News release
- Infographics – one to summarize action plan and one to help highlight the tips for Flint residents
- High level points

The Governor, along with Dan Wyant, Nick Lyon, and Dr. Eden Wells are slated to do an embargoed media conference call with select reporters at 11:15 a.m. tomorrow.

This will be followed by a 1:30 p.m. press conference in Flint led by Directors Wyant and Lyon, moderated by Harvey, and including Dr. Wells and Flint Mayor Dayne Walling. EPA Region 5 Administrator Susan Headman dropped out late today due to some pending litigation. It's possible that Cong. Kildee and/or State Sen. Anaich and State Reps. Neely and Phelps may be participating as well.

There will also be a clearinghouse of Flint water information available at a new web site – www.michigan.gov/FlintWater. It will be live at 1 p.m. tomorrow.

Please review and let us know of any Qs, concerns, last edits, of if anything else is needed at all.

They are going through last review and refinement now. Please do not share materials until we know they are final.

Thanks much,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

Message

From: Kennedy, Jordan (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=KENNEDYJ4]
Sent: 10/2/2015 8:57:05 AM
To: Wurfel, Sara (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Wurfels]; Brown, Jessica (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Brown Jessica741]
Subject: RE: Call -in number and passcode for media to use for Flint call?

Participant line/media line: **PPI**

Jordan Kennedy

Communications Representative

Executive Office of Governor Rick Snyder

Phone: 517.335.6397

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 8:55 AM
To: Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>
Subject: Call -in number and passcode for media to use for Flint call?

Can you please send those specific numbers to share with media asap. Thx!

Sara Wurfel, APR

Press Secretary • Executive Office of Governor Rick Snyder

wurfels@michigan.gov

517-335-6397, office

PPI mobile

Twitter:@SaraLW

Message

From: Hollins, Harvey (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=HOLLINSH]
Sent: 10/2/2015 9:39:03 AM
To: Wurfel, Sara (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Wurfels]
Subject: Press Conference in Flint

Is this a media participation only press conference? If not, who do I send names to get on the list of observers.

From: Paciorek, Josh (GOV)
Sent: Friday, October 02, 2015 10:51 AM
To: Eisner, Jennifer (DHHS)
Cc: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: RE: Flint water filter paragraph for website

We made an edit to the last bullet point. How's this look, everyone?

"To ensure safe drinking water, the state of Michigan is providing water filters for free.

1) Governor Snyder has identified $1 million in funding to secure filters for Flint residents.
2) The Michigan Department of Health and Human Services will provide filters for free to Flint DHHS clients* in 25,000 households.
3) Working with United Way, community partners, and corporate sponsors to secure additional filters and distribute them.

Please check mi.gov/FlintWater for regular updates regarding water filters for Flint residents.

*The eligible programs are: Family Independence Program (FIP), Food Assistance Program (FAP), Child Development and Care (CDC), State Disability Assistance (SDA) or Social Security Insurance (SSI) recipients."

From: Paciorek, Josh (GOV)
Sent: Friday, October 02, 2015 10:49 AM
To: Eisner, Jennifer (DCH) <EisnerJ@michigan.gov>
Cc: Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: Flint water filter paragraph for website

Sure, thanks for the edits, Jenn.

How does this look?

"To ensure safe drinking water, the state of Michigan is providing water filters for free.

1) Governor Snyder has identified $1 million in funding to secure filters for Flint residents.
2) The Michigan Department of Health and Human Services will provide filters for free to Flint DHHS clients* in 25,000 households.
3) United Way and community partners are working to secure additional filters and distribute them.

Please check mi.gov/FlintWater for regular updates regarding water filters for Flint residents.

*The eligible programs are: Family Independence Program (FIP), Food Assistance Program (FAP), Child Development and Care (CDC), State Disability Assistance (SDA) or Social Security Insurance (SSI) recipients."

From: Eisner, Jennifer (DHHS)
Sent: Friday, October 02, 2015 10:47 AM
To: Paciorek, Josh (GOV) <PaciorekJ@michigan.gov>

Cc: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Re: Flint water filter paragraph for website

Hi Josh:

2nd point -- can we say "The Michigan Department of Health and Human Services will provide filters for free to Flint DHHS clients in 25,000 households."?

We would like to stay away from "identified funds" until the amount is finalized.

One other thought -- should we put an asterisk after Flind DHHS Clients* and list which program participants are eligible as a footnote at the end? I'll leave it up to you, but those eligible are those who were former DHS clients -- not necessarily all MDHHS clients. We can clarify if asked but it might be better to avoid initial confusion -- we wouldn't want to mislead all HMP enrollees, for example.

The eligible programs are: Family Independence Program (FIP), Food Assistance Program (FAP), Child Development and Care (CDC), State Disability Assistance (SDA) or Social Security Insurance (SSI) recipients.

A,

From: Paciorek, Josh (GOV)
Sent: Friday, October 2, 2015 10:37 AM
To: Eisner, Jennifer (DHHS)
Cc: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: Flint water filter paragraph for website

Jenn,

I'd like to add information about the filters on the website, but I want to make sure that I understand the information.

Can you review the paragraph below and make changes as needed so that this information is accurate?

"To ensure safe drinking water, the state of Michigan is providing water filters for free.

1) Governor Snyder has identified $1 million in funding to secure filters for Flint residents.
2) The Michigan Department of Health and Human Services has identified funds to provide filters for free to Flint DHHS clients in 25,000 households.
3) United Way and community partners are working to secure additional filters and distribute them.

Please check mi.gov/FlintWater for regular updates regarding water filters for Flint residents."

Thanks for your help

Josh

From: Wurfel, Brad (DEQ)
Sent: Friday, October 02, 2015 4:38 PM
To: Wurfel, Sara (GOV); Wyant, Dan (DEQ); Tommasulo, Karen (DEQ); Pallone, Maggie (DEQ); Murray, David (GOV)
Subject: Fwd: U.S. EPA comment on State of Michigan and City of Flint press conference on Oct. 2, 2015

Sent from my iPhone

Begin forwarded message:

> **From:** "Kelley, Jeff" <kelley.jeff@epa.gov>
> **Date:** October 2, 2015 at 2:23:30 PM EDT
> **To:** "Brad Wurfel (wurfelb@michigan.gov)" <wurfelb@michigan.gov>
> **Subject: U.S. EPA comment on State of Michigan and City of Flint press conference on Oct. 2, 2015**
>
> *FYI, this is the statement we released this afternoon …*
>
> This statement can be attributed to EPA Region 5 Administrator Susan Hedman:
>
> > "Actions that the State of Michigan and the City of Flint announced today are important steps to protect public health. The immediate steps being taken to implement corrosion control will reduce lead in drinking water, as required by the Safe Drinking Water Act. US EPA will continue to provide technical assistance to the State of Michigan and the City of Flint to support their joint effort. "
>
> ---
> *Jeff Kelley*
> *Director, Office of External Communications*
> *U.S. EPA Region 5*
> *ph: 312-353-1159*

From: Lasher, Geralyn (DHHS)
Sent: Monday, October 05, 2015 4:11 PM
To: Hertel, Elizabeth (DHHS); Lyon, Nick (DHHS); Becker, Timothy (DHHS); Thompson, Sheryl D. (DHHS); Beurer, Terrence (DHHS); Wurfel, Brad (DEQ); Wyant, Dan (DEQ); Wurfel, Sara (GOV); Priest, Chris (GOV); Hanley, Farah (DHHS)
Cc: Minicuci, Angela (DHHS); Eisner, Jennifer (DHHS)
Subject: FW: FOR IMMEDIATE RELEASE: Water filters available for MDHHS clients, all Flint residents beginning Tuesday

FYI--we have just issued this release regarding filters.

From: Michigan Department of Health and Human Services [mailto:MDHHS@govsubscriptions.michigan.gov]
Sent: Monday, October 05, 2015 4:09 PM
To: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>
Subject: FOR IMMEDIATE RELEASE: Water filters available for MDHHS clients, all Flint residents beginning Tuesday

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Michigan Department of Health & Human Services logo

Press Release

FOR IMMEDIATE RELEASE: October 5, 2015

CONTACT: Jennifer Eisner, (517) 241-2112

Water filters available for MDHHS clients, all Flint residents beginning Tuesday

LANSING, Mich. – Free water filters will be available to current Michigan Department of Health and Human Services clients and Flint residents at four locations beginning Tuesday, October 6, at 9 a.m. through a partnership between the MDHHS and the Genesee County Community Action Resource Department. Free National Sanitation Foundation certified water filters are being provided to Flint residents as part of the administration's comprehensive approach to addressing water concerns in the area.

Current MDHHS clients are encouraged to visit either the 125 E. Union St. or 4809 Clio Road MDHHS office location to obtain a free, certified home water filter. Residents who are not currently enrolled in MDHHS assistance programs should visit the Genesee County Community Action

Resource Department offices located at 2727 Lippincott and 601 North Saginaw in Flint. Staff will be onsite at all four locations from 9 a.m. to 4 p.m., Monday through Friday, to distribute filters and assist residents who have questions about proper installation.

"Ensuring that families in the Flint area have access to resources that will help reduce the potential for lead exposure is our top priority," said Nick Lyon, director of the MDHHS. "I want to thank our partners who have mobilized to make water filters available – a point that highlights the importance of continued collaboration at the local, state and federal level as we move forward."

MDHHS clients in the city of Flint who are active Family Independence Program (FIP), Food Assistance Program (FAP), Child Development and Care (CDC), State Disability Assistance (SDA), or Social Security Insurance (SSI) recipients should bring valid identification and a copy of their water bill to their local MDHHS office to receive their filter free of charge. Flint residents who are not active MDHHS clients should bring identification and their water bill to the GCCARD location.

Although blood lead levels throughout the city of Flint have remained steady, last week, MDHHS data was found to be consistent with a recent Hurley Children's Hospital study indicating increased blood lead levels in children residing in two Flint ZIP codes after a 2014 change in water source. While lead paint remains the number one cause of lead poisoning in Michigan, the recent data prompted MDHHS to take action to reduce potential lead exposures through water sources.

MDHHS is urging parents in Flint and throughout the state to do their part in preventing elevated blood lead levels in children. For more information about steps you can take now, visit www.michigan.gov/lead, or contact your local health department. For updates on Flint water and available resources, visit www.michigang.gov/flintwater.

###

- Flint Filters Press Release 10515.pdf

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DHHS Footer

Become a foster parent through Michigan Department of Health & Human Services foster care program.

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From: Stoken, Laura (GOV)
Sent: Tuesday, October 06, 2015 10:52 AM
To: Wurfel, Sara (GOV)
Subject: RE: FOR IMMEDIATE RELEASE: Water filters available for MDHHS clients, all Flint residents beginning Tuesday

Thank you!!!

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 06, 2015 10:51 AM
To: Stoken, Laura (GOV) <StokenL@michigan.gov>
Subject: FW: FOR IMMEDIATE RELEASE: Water filters available for MDHHS clients, all Flint residents beginning Tuesday
Importance: High

From: Michigan Department of Health and Human Services [mailto:MDHHS@govsubscriptions.michigan.gov]
Sent: Monday, October 05, 2015 4:09 PM
To: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>
Subject: FOR IMMEDIATE RELEASE: Water filters available for MDHHS clients, all Flint residents beginning Tuesday

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Michigan Department of Health & Human Services logo

Press Release

FOR IMMEDIATE RELEASE: October 5, 2015

CONTACT: Jennifer Eisner, (517) 241-2112

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concerns in the area.

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"Ensuring that families in the Flint area have access to resources that will help reduce the potential for lead exposure is our top priority," said Nick Lyon, director of the MDHHS. "I want to thank our partners who have mobilized to make water filters available – a point that highlights the importance of continued collaboration at the local, state and federal level as we move forward."

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MDHHS is urging parents in Flint and throughout the state to do their part in preventing elevated blood lead levels in children. For more information about steps you can take now, visit www.michigan.gov/lead, or contact your local health department. For updates on Flint water and available resources, visit www.michigang.gov/flintwater.

###

- Flint Filters Press Release 10515.pdf

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Become a foster parent through Michigan Department of Health & Human Services foster care program.

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From: Workman, Wayne (TREASURY)
Sent: Wednesday, October 07, 2015 11:46 AM
To: Muchmore, Dennis (GOV); Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Wurfel, Sara (GOV); Wurfel, Brad (DEQ)
Subject: RE: How The Flint Water Crisis Emerged

Agreed. They also voted 7-1 to leave DWSD

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Muchmore, Dennis (GOV)
Sent: Wednesday, October 07, 2015 11:11 AM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>
Subject: RE: How The Flint Water Crisis Emerged

I noted in one of the slides that the council voted 7-1 to move back to DWSD and Jerry is quoted as not being in favor of it. I think they left out his reasoning for that and that would have been nice.

From: Workman, Wayne (TREASURY)
Sent: Wednesday, October 7, 2015 10:40 AM
To: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>
Subject: FW: How The Flint Water Crisis Emerged

Finally M Live recognizes that DWSD kicked Flint off the system.

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Widigan, Robert (TREASURY)
Sent: Wednesday, October 07, 2015 10:32 AM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Koryzno, Edward (Treasury) <KoryznoE@michigan.gov>
Cc: Schafer, Suzanne K. (Treasury) <SchaferS7@michigan.gov>
Subject: FW: How The Flint Water Crisis Emerged

This article gives a very detailed and accurate timeline from when the city decided to stop buying water from DWSD to today.

-Rob

From: Widigan, Robert (TREASURY)
Sent: Wednesday, October 07, 2015 10:29 AM
To: Schafer, Suzanne K. (Treasury) <Schafer57@michigan.gov>; Byrne, Randall (Treasury) <ByrneR1@michigan.gov>; Cline, Richard (Treasury) <cliner1@michigan.gov>
Subject: How The Flint Water Crisis Emerged

The second slide identifies that Detroit terminated the contract with the city:
http://www.mlive.com/news/flint/index.ssf/2015/10/how_the_flint_water_crisis_eme.html#2

Robert Widigan
Local Government Financial Services Division
Michigan Department of Treasury
Office (517) 373-3227 Cell PPI

From: Wurfel, Brad (DEQ)
Sent: Wednesday, October 07, 2015 12:59 PM
To: Wurfel, Sara (GOV)
Subject: FW: Flint Water FY 2016 Supplemental Budget Request
Attachments: Flint Water FY 2016 Supplemental Budget Request.docx

info

From: Pallone, Maggie (DEQ)
Sent: Wednesday, October 07, 2015 12:18 PM
To: Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ); Krisztian, George (DEQ)
Subject: Flint Water FY 2016 Supplemental Budget Request

This went to SBO moments ago

DRAFT Flint Water FY 2016 Supplemental Budget Request

1. $1 Million for Filters

The $1 million for filters will be used to purchase filters for households in Flint that do not qualify for assistance under any of the DHHS assistance programs. Filters for those residents will be paid for out of funding already in place in DHHS' budget. Each filter cost $20 and were ordered in bulk through Home Depot. Filters are being distributed through local public health, with documentation filed for each filter handed out.

2. $6 Million for switch from Flint River to DWSD

It will cost the City of Flint an additional $1.3 million per month to use DWSD instead of the Flint River. The State and the City agreed to split the cost until June 2016, when the new Karegnondi Water Authority will be completed and Flint will switch to that water source. ($1.3 million for 9 months)

3. $1.5 Million for 12 additional staff to do community Lead Exposure Testing

DEQ, DHHS and LARA are assembling a team to go into schools and high risk homes to test for lead exposure. The request is for 8 staff for DHHS, 2 staff for DEQ and 2 staff for LARA.

4. $1 Million for evaluating sample results at the State Lab

The new testing protocols for schools will require each faucet in the school to be tested and evaluated at the State lab. In addition, lead exposure testing in homes will result in tens of thousands more samples that will be need to processed. Each sample costs $26 to process.

Total Ask: $9.5 Million

Message

From: Muchmore, Dennis (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=MUCHMORED]
Sent: 10/7/2015 7:35:12 PM
To: Pallone, Maggie (DEQ) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=c77eefaa34dd466690df15c808fd1a92]; Wurfel, Sara (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Wurfels]
CC: Wurfel, Brad (DEQ) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=b6f17684155b465697bd2b350f2eb914]; Tommasulo, Karen (DEQ) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=6efada3b8bf04f89a494d31d2d514c55]; Wyant, Dan (DEQ) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=57e17534bc6d44b990e757afc8d8799d]; Lyon, Nick (DHHS) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=82b6b2e19e0e49058d52197dd3ba59c2]; Lasher, Geralyn (DHHS) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=d7135a709f634c62b53c9dc1c48eb5ff]; Krisztian, George (DEQ) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=1c4fe45fae9647e68665cfc15cce3c64]
Subject: RE: Flint water outreach list

Give me a script that you're willing to have repeated.

From: Pallone, Maggie (DEQ)
Sent: Wednesday, October 7, 2015 2:39 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Tommasulo, Karen (DEQ) <TommasuloK@michigan.gov>; Wyant, Dan (DEQ) <WyantD@michigan.gov>; Lyon, Nick (DHHS) <LyonN2@michigan.gov>; Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Krisztian, George (DEQ) <krisztiang@michigan.gov>
Subject: Flint water outreach list

Attached is the outreach list for announcement for tomorrow. Please note that Kildee has been assigned to Governor tonight, and Ananich tomorrow.

I was not sure who we were contacting for Local Public Health- Geralyn can you help fill in that piece?

My understanding is this the outreach for the lead in the schools, and that outside of legislators, we are not telling anyone about the DWSD deal. Are we telling all legislators about the DWSD deal, or just the leadership team?

Thanks,

Maggie

Maggie Pallone

Deputy Director

Policy and Legislative Affairs

Department of Environmental Quality

PPI cell)

PalloneM@michigan.gov

From: Workman, Wayne (TREASURY)
Sent: Wednesday, October 07, 2015 4:40 PM
To: Wurfel, Sara (GOV)
Subject: RE: flint docs

We are checking that out right now, but have not called the City. None of this is on their website.

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 4:26 PM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Subject: RE: flint docs

Thx.

Was there any vote at all from Flint City Council to use Flint water once DWSD sent that notice and city had to make determination in spring of 2014??

From: Workman, Wayne (TREASURY)
Sent: Wednesday, October 07, 2015 4:25 PM
To: Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Cc: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>
Subject: FW: flint docs

Harvey, Attached are various documents and press reports of the City Council`s vote in March 2013 to join KWA. We have not located the actual resolution and it is not on the City`s website. It is interesting that the only no vote explained he wanted to just use Flint River water. Wayne

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Dempkowski, Angela (Treasury)
Sent: Wednesday, October 07, 2015 4:20 PM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Subject: flint docs

Revised pdf

Angela Dempkowski | Senior Executive Management Assistant/Treasury
State of Michigan | 430 W. Allegan Street, 1st Floor | Lansing, MI 48922
(517) 373-4415 | (517) 373-0633 (fax)
dempkowskia@michigan.gov

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Thank you

From: Dayne Walling <dwalling@cityofflint.com>
Sent: Wednesday, October 07, 2015 9:44 PM
To: Wurfel, Sara (GOV)
Cc: Jason Lorenz - City of Flint
Subject: Re: FW: Draft run of show and release

Thank you. Please do use Jason as the City public information officer and press contact. Release looks great!

Couple things and my quote

This sentence is not accurate: Flint city leaders requested the state's help to fund the reconnection after a Wednesday meeting of Flint's Technical Advisory Committee.

I made my request to the Governor and COS on 10/2 and the Governor asked me about a funding arrangement prior to the advisory committee meeting.

I think you could use a more general line such as: Flint city leaders requested the state's help to fund the reconnection and to assist with health and infrastructure issues.

Then my quote:
"Reconnecting to Detroit is the fastest way to deliver clean, safe water to Flint and stabilize the infrastructure system. I appreciate the State, the Mott Foundation, Detroit, and the County's participation in a solution for Flint's water problems. The health and safety of Flint's families, children and seniors is my top priority and reconnecting to Detroit is a major step that the City could not take alone given budget constraints."

Finally, I have heard debate among the technical staff about the term optimized corrosion control. In particular, I understand that optimization actually takes place over time and Flint's system may not be optimized with the dosage of phosphate based corrosion control currently in the Detroit system, which is at a maintenance level.
INstead of: Additionally, the Great Lakes Water Authority has already fully optimized its corrosion control
Could say: Additionally, the Great Lakes Water Authority water already has additional corrosion control

Nice working with you too and see you tomorrow
Dayne

On Wed, Oct 7, 2015 at 7:53 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

Greetings Mayor and Jason –

Here is proposed run of show for tomorrow, along with the draft release. Again, per earlier conversations, highly confidential and not for sharing as dependent on final details getting worked out at tomorrow's 9 a.m. meeting.

On the release, please note in particular the placeholder for the Mayor's quote.

Please review and let us know of any edits or concerns you may have. We look forward to your feedback. If there's a chance you can get us the quote sometime yet this evening, that'd be fantastic.

Also, we'd like to put a city media contact here as well. Assuming that's Jason. Just wanted to verify which contact info should we use?

Thanks again. Glad to be working and collaborating with the city on this very challenging issue.

Best regards,

SW

Run of show & comment topics below:

9:45 AM – 10:00 AM Pre-Brief with all speakers

10:00 AM – 10:01 AM Harvey Hollins kicks off press conference; introduces Governor

10:01 AM – 10:05 AM Governor gives remarks

10:05 AM – 10:06 AM Harvey Hollins introduces Mayor Dayne Walling

10:06 AM – 10:10 AM Mayor Walling gives remarks

10:10 AM – 10:11 AM Harvey Hollins introduces DEQ Director Dan Wyant

10:11 AM – 10:15 AM Director Wyant gives remarks

10:15 AM – 10:16 AM Harvey Hollins introduces DHHS Director Nick Lyon

10:16 AM – 10:17 AM Director Nick Lyon introduces Dr. Eden Wells

10:17 AM – 10:20 AM Dr. Eden Wells remarks

10:20 AM – 10:21 AM Harvey Hollins introduces Ridgway White of Mott Foundation

10:21 AM – 10:25 AM Ridgway White gives remarks

10:25 AM – 10:35 AM Q&A from the podium

10:35 AM Event concludes; Governor departs

Nature of comments:

RDS – Collaboration led to solution, outline of solution

Mayor Walling – Importance of solution to Flint

Dan Wyant – Overview of steps on transition from Flint River to DWSD, school testing results

Nick Lyon – DHHS involvement

Dr. Eden Wells – Testing of water going forward, use of filters approved by NSF

Ridgway White – Importance of collaboration/commitment to Flint

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Release:

Gov. Rick Snyder: Move back to Detroit water provides best protection for public health in Flint

State, Mott Foundation and city form partnership to fund switch

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Snyder said Thursday that he will request the state Legislature to provide half, or $6 million, of the $12 million needed to reconnect with the authority. The Flint city government will provide $2 million and the Charles Stewart Mott Foundation will donate $4 million.

"All Flint residents need clean, safe drinking water," Snyder said. "The technical experts helping the city on its water advisory all agree this move back to the Great Lakes Water Authority provides the best public health protection for children and families. This effort today is the result of people coming together to solve a problem. I appreciate Detroit's willingness to reconnect with Flint, the Mott Foundation's generous donation, and the dedication of all parties to come together to protect Flint families and children."

The Michigan Departments of Environmental Quality and Health and Human Services today also committed an additional $3.5 million for water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

Flint city leaders requested the state's help to fund the reconnection after a Wednesday meeting of Flint's Technical Advisory Committee. Flint's move to the Great Lakes Water Authority is expected to cost about $1.3 million per month until the Karegnondi Water Authority is completed next summer.

INSERT MAYOR QUOTE HERE

The move to Detroit water, which is drawn from Lake Huron, carries many public health benefits. As large bodies of water, the Great Lakes are naturally prone to fewer problems from large rain events and other runoff issues that can be present in shallower rivers. Additionally, the Great Lakes Water Authority has already fully optimized its corrosion control, using phosphates to help coat the insides of pipes and prevent lead from leaching into the water.

However, reconnecting with the authority will not completely resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control. Additionally, some households in the city could experience lead in their drinking water until all lead pipes and plumbing are replaced.

INSERT MOTT FOUNDATION QUOTE HERE

To best protect public health, Snyder said state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure.

Free filters are available for current MDHHS clients at the 125 E. Union St. or 4809 Clio Road MDHHS office locations. For residents who are not currently enrolled in MDHHS assistance programs, free filters are available at the Genesee County Community Action Resource Department offices at 2727 Lippincott and 601 North Saginaw in Flint. Staff will be at all four locations from 9 a.m. to 4 p.m., Monday through Friday, to distribute filters and assist residents who have questions about proper installation. At the Lippincott location only, extended hours will be offered this weekend, including until 7 p.m. on Thursday and Friday and from 10 a.m. to 2 p.m. on Saturday.

Other good practices for residents concerned about lead include turning on the cold water tap and running the water until it's as cold as it will go. Additionally, only use cold water for cooking, drinking and especially mixing baby formula.

School test results released; more investigation planned

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However, this sampling provides only an initial screen, and the state is committing to further testing water and inspecting plumbing at these schools. Until testing is complete, schools are advised to continue using bottled water and filtration as a precaution to protect children.

In addition, free testing is still available for any other Flint school, including daycares and Head Starts. Free testing is also available for any Flint resident.

Additional information, including more detailed lead screening results, is available at www.michigan.gov/flintwater.

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Dayne Walling
Mayor, City of Flint

City Hall, 1101 S. Saginaw St.
Flint, MI 48502
810-766-7346
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Wednesday, October 07, 2015 11:34 PM
To: Dayne Walling
Cc: Wurfel, Sara (GOV)
Subject: Re: FW: Draft run of show and release

Looks great, Sara. Tomorrow will surely be interesting.

On Oct 7, 2015 9:43 PM, "Dayne Walling" <dwalling@cityofflint.com> wrote:
Thank you. Please do use Jason as the City public information officer and press contact. Release looks great!

Couple things and my quote

This sentence is not accurate: Flint city leaders requested the state's help to fund the reconnection after a Wednesday meeting of Flint's Technical Advisory Committee.

I made my request to the Governor and COS on 10/2 and the Governor asked me about a funding arrangement prior to the advisory committee meeting.

I think you could use a more general line such as: Flint city leaders requested the state's help to fund the reconnection and to assist with health and infrastructure issues.

Then my quote:
"Reconnecting to Detroit is the fastest way to deliver clean, safe water to Flint and stabilize the infrastructure system. I appreciate the State, the Mott Foundation, Detroit, and the County's participation in a solution for Flint's water problems. The health and safety of Flint's families, children and seniors is my top priority and reconnecting to Detroit is a major step that the City could not take alone given budget constraints."

Finally, I have heard debate among the technical staff about the term optimized corrosion control. In particular, I understand that optimization actually takes place over time and Flint's system may not be optimized with the dosage of phosphate based corrosion control currently in the Detroit system, which is at a maintenance level.
INstead of: Additionally, the Great Lakes Water Authority has already fully optimized its corrosion control
Could say: Additionally, the Great Lakes Water Authority water already has additional corrosion control

Nice working with you too and see you tomorrow
Dayne

On Wed, Oct 7, 2015 at 7:53 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

Greetings Mayor and Jason –

Here is proposed run of show for tomorrow, along with the draft release. Again, per earlier conversations, highly confidential and not for sharing as dependent on final details getting worked out at tomorrow's 9 a.m. meeting.

On the release, please note in particular the placeholder for the Mayor's quote.

Please review and let us know of any edits or concerns you may have. We look forward to your feedback. If there's a chance you can get us the quote sometime yet this evening, that'd be fantastic.

Also, we'd like to put a city media contact here as well. Assuming that's Jason. Just wanted to verify which contact info should we use?

Thanks again. Glad to be working and collaborating with the city on this very challenging issue.

Best regards,

SW

Run of show & comment topics below:

9:45 AM – 10:00 AM Pre-Brief with all speakers

10:00 AM – 10:01 AM Harvey Hollins kicks off press conference; introduces Governor

10:01 AM – 10:05 AM Governor gives remarks

10:05 AM – 10:06 AM Harvey Hollins introduces Mayor Dayne Walling

10:06 AM – 10:10 AM Mayor Walling gives remarks

10:10 AM – 10:11 AM Harvey Hollins introduces DEQ Director Dan Wyant

10:11 AM – 10:15 AM Director Wyant gives remarks

10:15 AM – 10:16 AM Harvey Hollins introduces DHHS Director Nick Lyon

10:16 AM – 10:17 AM Director Nick Lyon introduces Dr. Eden Wells

10:17 AM – 10:20 AM Dr. Eden Wells remarks

10:20 AM – 10:21 AM Harvey Hollins introduces Ridgway White of Mott Foundation

10:21 AM – 10:25 AM Ridgway White gives remarks

10:25 AM – 10:35 AM Q&A from the podium

10:35 AM Event concludes; Governor departs

Nature of comments:

RDS – Collaboration led to solution, outline of solution

Mayor Walling – Importance of solution to Flint

Dan Wyant – Overview of steps on transition from Flint River to DWSD, school testing results

Nick Lyon – DHHS involvement

Dr. Eden Wells – Testing of water going forward, use of filters approved by NSF

Ridgway White – Importance of collaboration/commitment to Flint

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Release:

Gov. Rick Snyder: Move back to Detroit water provides best protection for public health in Flint

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Snyder said Thursday that he will request the state Legislature to provide half, or $6 million, of the $12 million needed to reconnect with the authority. The Flint city government will provide $2 million and the Charles Stewart Mott Foundation will donate $4 million.

"All Flint residents need clean, safe drinking water," Snyder said. "The technical experts helping the city on its water advisory all agree this move back to the Great Lakes Water Authority provides the best public health protection for children and families. This effort today is the result of people coming together to solve a problem. I appreciate Detroit's willingness to reconnect with Flint, the Mott Foundation's generous donation, and the dedication of all parties to come together to protect Flint families and children."

The Michigan Departments of Environmental Quality and Health and Human Services today also committed an additional $3.5 million for water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

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INSERT MAYOR QUOTE HERE

The move to Detroit water, which is drawn from Lake Huron, carries many public health benefits. As large bodies of water, the Great Lakes are naturally prone to fewer problems from large rain events and other runoff issues that can be present in shallower rivers. Additionally, the Great Lakes Water Authority has already fully optimized its corrosion control, using phosphates to help coat the insides of pipes and prevent lead from leaching into the water.

However, reconnecting with the authority will not completely resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control. Additionally, some households in the city could experience lead in their drinking water until all lead pipes and plumbing are replaced.

INSERT MOTT FOUNDATION QUOTE HERE

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Other good practices for residents concerned about lead include turning on the cold water tap and running the water until it's as cold as it will go. Additionally, only use cold water for cooking, drinking and especially mixing baby formula.

School test results released; more investigation planned

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Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
810-766-7346
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

From: Wurfel, Brad (DEQ)
Sent: Wednesday, October 07, 2015 11:35 PM
To: Murray, David (GOV)
Cc: Wurfel, Sara (GOV); Tommasulo, Karen (DEQ)
Subject: Re: Press release with mayor, Mott quotes

Paragraph 7 -8 has some problems. Recrafting it now, will email separately.

Sent from my iPhone

On Oct 7, 2015, at 10:44 PM, Murray, David (GOV) <MurrayD1@michigan.gov> wrote:

> Good evening Governor and team,
>
> Here's the most updated version of the press release, including quotes and incorporating suggestions from Mayor Walling and the Mott Foundation friends. Please let me know if there are any other changes. Thank you for your assistance.
>
> Dave

Gov. Rick Snyder: Move back to Detroit water provides best protection for public health in Flint

State, Mott Foundation, city form partnership to fund switch until KWA is ready

FLINT, Mich. – Flint families and children will be better protected by reconnecting with the Great Lakes Water Authority as the source of the city's drinking water until the Karegnondi Water Authority pipeline is completed, Gov. Rick Snyder said.

Snyder said Thursday that he will request the state Legislature to provide half, or $6 million, of the $12 million needed to reconnect with the authority through next summer, when the KWA is expected to be completed. The Flint city government will provide $2 million and the Charles Stewart Mott Foundation has committed $4 million.

"All Flint residents need clean, safe drinking water," Snyder said. "The technical experts helping the city on its water advisory all agree this move back to the Great Lakes Water Authority provides the best public health protection for children and families. This effort today is the result of people coming together to solve a problem. I appreciate Detroit's willingness to reconnect with Flint, the Mott Foundation's generous commitment, and the dedication of all parties to come together to protect Flint families and children."

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Flint city leaders requested the state's help to fund the reconnection and to assist with health and infrastructure issues. Flint's move to the Great Lakes Water Authority is expected to cost about $1.3 million per month until the Karegnondi Water Authority is completed next summer.

"It's heartening to know so many people are working at so many levels to bring safe, clean water back to Flint," Mott Foundation President Ridgway White said. "We believe that reconnecting the city's water supply to Lake Huron is the right and necessary thing to do, and we're glad we could help the state and the city make it happen."

"Reconnecting to Detroit is the fastest way to deliver clean, safe water to Flint and stabilize the infrastructure system," Flint Mayor Dayne Walling said. "I appreciate the state, the Mott Foundation, Detroit, and the county's participation in a solution for Flint's water problems. The health and safety of Flint's families, children and seniors is my top priority and reconnecting to Detroit is a major step that the city could not take alone given budget constraints."

To best protect public health, Snyder said state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure.

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Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov

517-335-6397, office
PPI mobile
Twitter:@michigandmurray

<image001.jpg>

<151008 Flint water release_V4.docx>

From: Ackley, Martin (MDE)
Sent: Thursday, October 08, 2015 10:14 AM
To: Murray, David (GOV); Wurfel, Sara (GOV)
Subject: Flint water

Importance: High

Dan Wyant called Brian Whiston last night to let him know of the questionable lead levels they found in three Flint elementary schools and that further screening will be done…

I know that the Gov and Dan Wyant are going to be having a press conf in Flint today. Is there an embargoed press release or other background that we can prepare Brian with, if we get calls?

Thanks.
-marty

Martin Ackley, Director
Office of Public and Governmental Affairs
Michigan Department of Education

Customer Service is a priority at the Michigan Department of Education -- helping Michigan schools, families, and communities improve the achievement and well-being of ALL our children.

MICHIGAN Department of Education

From: Stoken, Laura (GOV)
Sent: Thursday, October 08, 2015 10:51 AM
To: Wurfel, Sara (GOV); Murray, David (GOV); Tommasulo, Karen (DEQ); Wurfel, Brad (DEQ)
Cc: Kennedy, Jordan (GOV); Thelen, Mary Beth (DEQ)
Subject: FLINT WATER : New form letter- questions

Hi Team,

Please see below the proposed Flint Water form letter….

For our knowledge/ not the letter:
If someone can give me information on the initial switch that would be helpful- when, why.

Also, the action timeline from when the state found out about the lead, up to today.

Let me know if we are good to go on the letter.

Thank you,

Laura

Thank you for your recent correspondence sent to Governor Rick Snyder regarding the water in Flint. As a member of Governor Snyder's staff, I am responding on his behalf.

Flint families and children will be better protected by reconnecting with the Great Lakes Water Authority as the source of the city's drinking water until the Karegnondi Water Authority pipeline is completed. Governor Snyder has asked the state Legislature to provide half, or $6 million, of the $12 million needed to reconnect with the authority through next summer, when the KWA is expected to be completed. The Flint city government will provide $2 million and the Charles Stewart Mott Foundation has committed $4 million.

Governor Snyder said "Flint residents need to have access to safe, clean, water now and long into the future." The technical experts helping the city on its water advisory all agree this move back to the Great Lakes Water Authority provides the best public health protection for children and families. The Governor appreciates Detroit's willingness to reconnect with Flint, the Mott Foundation's generous commitment, and the dedication of all parties to come together to protect Flint families and children.

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To best protect public health, Governor Snyder, state, and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure. The Michigan Departments of Environmental Quality (DEQ) and Health and Human Services (MDHHS) also committed an additional $3.5 million for water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

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In addition, free testing is still available for any other Flint school, including daycares and Head Starts. Free testing is also available for any Flint resident.

Please visit Michigan.gov/Flintwater for additional resources.

Thank you, again, for taking the time to share your concerns with our office. Should you have any further comments, questions or concerns regarding this or any other state-related matter, I've included my contact information below.

Sincerely,

Laura Stoken

Manager, Constituent Relations
Executive Office of the Governor, Rick Snyder
517.335.7858

From: Weiss, Kurt (DTMB)
Sent: Thursday, October 08, 2015 1:16 PM
To: Wurfel, Sara (GOV)
Subject: FW: Update from Nick's calls

Hi Sara,

I checked and doesn't look like you were copied on this, so sending it along.

Kurt Weiss
State Budget Office
517-335-0050

-----Original Message-----
From: Duncan, Nancy (DTMB)
Sent: Thursday, October 08, 2015 10:31 AM
To: Starr, Scott (DTMB); Weiss, Kurt (DTMB); McNeely, Jacques (DTMB); Fosdick, David (DTMB); Kimmith, Dean (DTMB)
Subject: FW: Update from Nick's calls

Keeping you in the loop.

-----Original Message-----
From: Lasher, Geralyn (DHHS)
Sent: Thursday, October 08, 2015 9:32 AM
To: Hanley, Farah (DHHS); Becker, Timothy (DHHS); Grijalva, Nancy (DHHS); Roberts, John (DTMB); Wyant, Dan (DEQ); Duncan, Nancy (DTMB); Harkins, Chris (DTMB); Pallone, Maggie (DEQ); Hertel, Elizabeth (DHHS); Ruest, Karla (DHHS)
Cc: Lyon, Nick (DHHS)
Subject: Update from Nick's calls

Nick has put in calls to our subcommittee chairs and wanted to pass along the feedback he got.

All agree from the health side that the DHHS action is the right way to move forward. However they had some negative feedback on the $6 million.

--Representatives MacGregor and Poleski both feel this should be a loan to the City of Flint instead of direct payment of $6 million

--Senator Marleau complained about the lack of legislative input before the decision was made to switch back to Flint water from Detroit in the first place.

He left messages for Verheulen, Santana, Shirkey and Hertel.

Sent from my iPad

From: Weiss, Kurt (DTMB)
Sent: Thursday, October 08, 2015 2:18 PM
To: Wurfel, Sara (GOV)
Subject: FW: Flint Water
Attachments: City of Flint Water Funding Solution.pdf

Here it is electronically as well.

Kurt Weiss
State Budget Office
517-335-0050

From: Duncan, Nancy (DTMB)
Sent: Thursday, October 08, 2015 2:11 PM
To: Kyle Jen (kjen@house.mi.gov); Steve Angelotti (SAngelotti@senate.michigan.gov); mcleary@house.mi.gov
Cc: Starr, Scott (DTMB); Weiss, Kurt (DTMB)
Subject: Flint Water

In follow-up to our meeting this morning, I've attached a spreadsheet outlining the Administration's recommendation for addressing the Flint water situation. A formal supplemental revision will be forthcoming (hopefully later today).

Nancy Duncan
Deputy State Budget Director
517-373-0870

City of Flint Water - Funding Solution
State of Michigan Commitment

Items in green to not require supplemental appropriations

Agency	GF/GP	Gross	Comments
Filters:			
Health & Human Services	$1,016,000	$1,016,000	AY15 work project
Health & Human Services	$0	$1,000,000	DEQ State Restricted Settlement Funds provided to HHS Emergency Services local office (FY16 appropriation).
Subtotal Filters:	**$1,016,000**	**$2,016,000**	
Reconnect to DSW:			**Reconnection costs ~$1.3m/month x 9 mos. to be shared by state & Flint**
Environmental Quality	$5,000,000	$6,000,000	DEQ State Restricted Settlement Fund of $1m; balance GF/GP
Subtotal Reconnect:	**$5,000,000**	**$6,000,000**	
Testing Costs:			
Environmental Quality	$1,000,000	$1,000,000	Additional tests at state lab; cost per sample: $26
Subtotal Testing:	**$1,000,000**	**$1,000,000**	
Additional Agency Support:			
LARA	$0	$200,000	Support for inspectors to do schools (public and parochial) and health facilities (hospitals, Long Term Care, etc.).
MSHDA	$0	$249,300	Sufficient spending authority already exists
Health & Human Services	$850,000	$850,000	Follow-up on children with elevated blood levels
Environmental Quality	$300,000	$300,000	Home and school inspections.
Subtotal Additional Support:	**$1,150,000**	**$1,599,900**	
Total Commitment	**$8,166,000**	**$10,615,900**	
Total Supplemental Appropriations	**$7,150,000**	**$9,350,000**	

From: Weiss, Kurt (DTMB)
Sent: Thursday, October 08, 2015 3:03 PM
To: Eisner, Jennifer (DHHS)
Cc: Minicuci, Angela (DHHS); Wurfel, Sara (GOV)
Subject: RE: $3.5M or $4M
Attachments: City of Flint Water Funding Solution.pdf

Hi Jennifer,

I am looping in Wurfel on this as I just provided her with the attached spreadsheet. There is some confusion out there on the $3.5 million and Jonathon Oosting also called on this. Sara, do you want me to just call Eggert and walk him through the spreadsheet so he understands? Oosting just called me directly and I explained it to him, so I can do the same with Eggert.

Kurt Weiss
State Budget Office
517-335-0050
State Budget

From: Eisner, Jennifer (DHHS)
Sent: Thursday, October 08, 2015 2:34 PM
To: Weiss, Kurt (DTMB)
Cc: Minicuci, Angela (DHHS)
Subject: FW: $3.5M or $4M

Hey there Kurt... can you help clarify this for Dave?

Jennifer (Smith) Eisner
Public Information Officer
Michigan Department of Health and Human Services
517-241-2112

From: Eggert, David [mailto:DEggert@ap.org]
Sent: Thursday, October 08, 2015 2:18 PM
To: Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>
Subject: $3.5M or $4M

Jennifer,

I thought I heard Snyder mention spending $4M separately from the $6M to switch back. News release says $3.5M. Can you clarify? Thx.

AP
ASSOCIATED PRESS

David Eggert
State government reporter

215 S. Washington Square, Suite 170
Lansing, MI 48933
T 517-482-8011
M PPI

deggert@ap.org
www.ap.org

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City of Flint Water - Funding Solution
State of Michigan Commitment

Items in green to not require supplemental appropriations

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Total Commitment	**$8,166,000**	**$10,615,900**	
Total Supplemental Appropriations	**$7,150,000**	**$9,350,000**	

From: Saxton, Thomas (Treasury)
Sent: Tuesday, October 13, 2015 11:51 AM
To: Wyant, Dan (DEQ); Muchmore, Dennis (GOV)
Cc: Wurfel, Sara (GOV); Wurfel, Brad (DEQ); Stanton, Terry A. (Treasury); Workman, Wayne (TREASURY)
Subject: FW: Flint Water Issue: Memorandum RTAB1.PDF
Attachments: Memorandum RTAB1.PDF

Importance: High

Just fyi… the reconnect to DWSD is hitting the RTAB agenda tomorrow. We are not foreseeing any problems in terms of its approval.

From: Workman, Wayne (TREASURY)
Sent: Tuesday, October 13, 2015 10:44 AM
To: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>
Cc: Stanton, Terry A. (Treasury) <StantonT@michigan.gov>
Subject: FW: Flint Water Issue: Memorandum RTAB1.PDF
Importance: High

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Cline, Richard (Treasury)
Sent: Tuesday, October 13, 2015 10:40 AM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Byrne, Randall (Treasury) <ByrneR1@michigan.gov>; Schafer, Suzanne K. (Treasury) <SchaferS7@michigan.gov>; Koryzno, Edward (Treasury) <KoryznoE@michigan.gov>
Subject: Flint Water Issue: Memorandum RTAB1.PDF
Importance: High

FYI.

I just received this from Natasha regarding the City's request to reconnect to DWSD.

The City is asking that the RTAB consider this tomorrow. I am in the process of sending this to the Board.

It appears that the City is planning on taking the $2M from Fund Balance.

Eric Cline | Department Manager | State of Michigan
Michigan Department of Treasury | Local Government Financial Services Division | Fiscal Responsibility Section
430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
Lansing Office (517) 335-2078 | Cell Phone PPI | Traverse City Office (231) 922-5228
E-mail clinerl@michigan.gov

CONFIDENTIALITY NOTICE: This e-mail, and any attachments, is for the sole use of the intended recipient(s) and may contain information that is confidential and protected from disclosure under the law. Any unauthorized review, use, disclosure, or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail, and delete/destroy all copies of the original message and attachments Thank you.

From: Natasha Henderson [mailto:natashalhenderson@gmail.com]
Sent: Tuesday, October 13, 2015 10:16 AM
To: Dempkowski, Angela (Treasury) <DempkowskiA@michigan.gov>; Cline, Richard (Treasury) <cliner1@michigan.gov>
Subject: Memorandum RTAB1.PDF

Hello Eric,

Per your request, I have attached a request to add two high priority items to the RTAB agenda.

Thanks,

Natasha L. Henderson

CITY OF FLINT

Dayne Walling
Mayor

Natasha L. Henderson
City Administrator

Memorandum
To: Receivership Transition Advisory Board
From: Natasha L. Henderson, City Administrator
Date: Tuesday, October 13th
Re: Emergency Additions to the Agenda

Members of the Receivership Transition Advisory Board:

This memorandum respectfully requests the inclusion of two urgent items on the agenda for the October 14 Receivership Transition Advisory Board Meeting.

As you may be aware, the Genesee County Health Department has issued a public health advisory in regard to the high amount of lead contamination in City water in response to the findings of physicians at Hurley Hospital. This was followed by a similar advisory declared by the City.

Seeking to address this emergency, I requested that the City explore the possibility of ceasing the use of the Flint River as the City's water source and to reconnect to the Detroit Water and Sewerage Department (DWSD) until the KWA pipeline can be completed in 2016. This request was followed by a recommendation by the Mayor's Technical Advisory Committee to reconnect to DWSD to improve the City's water quality, thereby safeguarding public health. On October 8, 2015, the Governor pledged to provide financial assistance to Flint for the reconnection, in the amount of six million dollars. The Mott Foundation graciously offered to provide an additional four million. Combined with two million dollars provided by the City, a total amount of $12 million can be utilized to reconnect the City to DWSD for a nine month period.

In the interests of the public health and welfare, I request that the first item added to the agenda be a resolution (#150872) making available two million dollars from general fund balance to reconnect to DWSD. The second item requested to be added to the agenda is a resolution (#150875) granting the City Administrator the Authority to enter into a contract with DWSD. These items have been attached for your review.

I apologize for the sudden request for changes to the agenda, however the City is facing a critical emergency requiring immediate attention. The Administration has had to react with reflexive speed and remain adaptable to try to mitigate the serious consequences already affecting the residents of this community. I ask that you please consider my request to add and approve these items so that we may address this emergency in a timely and responsive manner.

Respectfully,

Natasha L. Henderson, City Administrator

RESOLUTION NO.: 150872

PRESENTED: _____

ADOPTED: _____

RESOLUTION AUTHORIZING A BUDGET AMENDMENT TO INCREASE THE WATER AND SEWER BUDGET BY $12,000,000.00 AND TO ALLOW FOR EXPENDITURES FROM THOSE FUNDS TO FACILITATE THE SWITCH BACK TO THE DWSD WATER SUPPLY

BY THE CITY ADMINISTRATOR:

Due to the serious health threat facing the residents of the City of Flint, the Administration has been diligently working toward a feasible and speedy resolution to the City's water crisis; and

Through the commitment of $6 million from the State of Michigan and $4 million from the C.S. Mott Foundation, a total of $10 million in contributions have been pledged to assist the City with the cost of purchasing water from the Detroit Water and Sewerage Department and its successor, the Great Lakes Water Authority, until the City is able to receive water from the Karegnondi Water Authority (KWA).

The City Administrator and the Mayor have agreed to the acceptance of these funds. At this time, the KWA reports that construction is on schedule to be completed by June 30, 2016. The City estimates that the total cost to purchase water through DWSD will be $12 million for 9 months. The balance of $2 million not covered by the generous pledges of State and Local resources is the responsibility of the City.

A budget amendment is necessary to reflect both an increase in revenues for the receipt of $10 million in assistance and $2 million of budgeted Use of Fund Balance and an increase in expenditures of $12 million for the purchase of DWSD water supply.

IT IS RESOLVED that the Finance Department is authorized to process a budget amendment to the appropriate Water and Sewer funds to facilitate the switch back to the Detroit water system as soon as practicable. Specific revenue and expenditure line items will be provided by the Chief Financial Officer.

APPROVED AS TO FORM:

for

Peter M. Bade, City Attorney

FOR THE CITY OF FLINT:

Natasha L. Henderson, City Administrator

APPROVED AS TO FINANCE:

Jody N. Lundquist, Chief Financial Officer

APPROVED BY THE FLINT CITY COUNCIL:

_____

S:\P. Bade\City Administrator Resolutions\Switch Back DWSD 10.07.15.docx

RESOLUTION STAFF REVIEW

DATE: October 12, 2015

Agenda Item Title: **RESOLUTION AUTHORIZING A BUDGET AMENDMENT TO INCREASE THE WATER AND SEWER BUDGET BY $12,000,000.00 AND TO ALLOW FOR EXPENDITURES FROM THOSE FUNDS TO FACILITATE THE SWITCH BACK TO THE DWSD WATER SUPPLY**

Prepared By: Jody N. Lundquist

Background/Summary of Proposed Action: As a result of the ongoing concern for the health and wellbeing of the City of Flint's residents, City Administration has worked to negotiate the reconnection to Detroit Water and Sewerage Department (DWSD) supply until the Karegnondi Water Authority (KWA) pipeline construction is complete. Per KWA representatives, KWA construction remains on schedule with a final completion date of June 30, 2016.

Financial Implications: The purchase of water from DWSD is estimated to cost approximately $12 million through June 30, 2016 based on average usage of 16 million gallons per day. $10 million in support has been pledged from State and Local sources. The City proposes a budget amendment for Use of Fund Balance in the Water Fund in the amount of $2 million to cover the cost of purchasing DWSD water through fiscal year end.

While the City continues to grapple with the financial impact of the Preliminary Injunction Order issued on August 7, 2015, in the short term, both the shortfall in revenues as a result of the Order and the additional cost of responding to the health and safety of the City's water supply are exactly the type of events for which the City's Fund Balance Reserve policies were designed. To the extent that the City Water Fund Reserve is projected to fall below the required balance of 25% of current year operating expenses and one year's annual debt service, the City will propose a reserve replenishment plan to accompany adoption of the next fiscal year's operating budget.

Budgeted Expenditure? Yes No Please explain if no: Prior to the emergent concerns regarding the safety of Flint's water supply, the FY2016 budget reflects the cost of supplying Flint River water.

Account No.: n/a

Pre-encumbered? Yes No Requisition #: n/a

Other Implications (i.e., collective bargaining): None.

Staff Recommendation: **Approve FY2016 $2 million Use of Fund Balance budget amendment**

Staff Person: Jody N. Lundquist Approval: Natasha Henderson

150875

RESOLUTION NO.:_____

PRESENTED:_____

ADOPTED:_____

RESOLUTION AUTHORIZING THE CITY ADMINISTRATOR TO TAKE NECESSARY ACTION TO CONVERT TO THE DETROIT WATER SYSTEM

BY THE CITY ADMINISTRATOR:

In order to promote the health, safety and welfare of this community, it is in the best interests of the City of Flint for the Detroit Water and Sewer Department (DWSD) to supply the City with treated water pending completion of the Karegnondi Water Authority; and

In order for DWSD to supply the City with water, it will be necessary to utilize pipe owned by the Genesee County Drain Commission (GCDC); and

The City, DWSD and GCDC are actively negotiating the terms of the necessary agreements to ensure this transition occurs as soon as possible; and

IT IS RESOLVED that the City Administrator is hereby authorized to enter into agreements with DWSD and GCDC for conversion to the Detroit Water System.

APPROVED AS TO FORM:

Peter M. Bade, City Attorney

Jody N. Lundquist, Chief Financial Officer

FOR THE CITY OF FLINT:

Natasha L. Henderson, City Administrator

APPROVED BY CITY COUNCIL:

_____

S:\P. Bade\City Administrator\Resolutions\CA DWSD Authority Reso 10.12.15(pmb rev).docx

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 13, 2015 11:55 AM
To: Saxton, Thomas (Treasury)
Cc: Wyant, Dan (DEQ); Wurfel, Sara (GOV); Wurfel, Brad (DEQ); Stanton, Terry A. (Treasury); Workman, Wayne (TREASURY)
Subject: Re: Flint Water Issue: Memorandum RTAB1.PDF

Thanks Tom, good for the people in Flint to get at least this issue dealt with.

Sent from my iPhone

On Oct 13, 2015, at 11:51 AM, Saxton, Thomas (Treasury) <SaxtonT@michigan.gov> wrote:

> Just fyi… the reconnect to DWSD is hitting the RTAB agenda tomorrow. We are not foreseeing any problems in terms of its approval.
>
> ---
>
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> **Sent:** Tuesday, October 13, 2015 10:44 AM
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> **Subject:** FW: Flint Water Issue: Memorandum RTAB1.PDF
> **Importance:** High
>
> Wayne L. Workman
> Deputy State Treasurer
> Michigan Department of Treasury
>
> ---
>
> **From:** Cline, Richard (Treasury)
> **Sent:** Tuesday, October 13, 2015 10:40 AM
> **To:** Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Byrne, Randall (Treasury) <ByrneR1@michigan.gov>; Schafer, Suzanne K. (Treasury) <SchaferS7@michigan.gov>; Koryzno, Edward (Treasury) <KoryznoE@michigan.gov>
> **Subject:** Flint Water Issue: Memorandum RTAB1.PDF
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>
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>
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>
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> **Eric Cline** | Department Manager | State of Michigan
> Michigan Department of Treasury | Local Government Financial Services Division | Fiscal Responsibility Section

430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
Lansing Office (517) 335-2078 | Cell Phone PPI | Traverse City Office (231) 922-5228
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From: Natasha Henderson [mailto:natashalhenderson@gmail.com]
Sent: Tuesday, October 13, 2015 10:16 AM
To: Dempkowski, Angela (Treasury) <DempkowskiA@michigan.gov>; Cline, Richard (Treasury) <cliner1@michigan.gov>
Subject: Memorandum RTAB1.PDF

Hello Eric,

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Thanks,

Natasha L. Henderson

<Memorandum RTAB1.PDF>

From: Wurfel, Brad (DEQ)
Sent: Thursday, October 15, 2015 12:30 PM
To: Wyant, Dan (DEQ); Wurfel, Sara (GOV)
Subject: FW: PRESS RELEASE: Mayor Walling Praises State Legislature
Attachments: Mayor Praises Legislature 10.15.15.pdf

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Thursday, October 15, 2015 12:25 PM
Subject: PRESS RELEASE: Mayor Walling Praises State Legislature

For Immediate Release

Mayor Dayne Walling Expresses Gratitude to State Legislature for Approval of Funding to Support Flint Water Needs

Flint, Michigan – October 15, 2015 – Flint Mayor Dayne Walling is expressing his gratitude to the Michigan Legislature for their quick response by approving a bill that provides over $9 million in funding for Flint. Both the State House and the Senate voted unanimously to pass bill HB 4102 to allow for the City of Flint to temporarily reconnect to Detroit water.

"I would like to thank the legislature for taking swift and decisive action to come to the aid of the citizens of Flint in time when they need it most," said Mayor Dayne Walling. "We can now move to secure a reconnection to Detroit and provide Lake Huron water until the KWA pipeline can be completed next year."

In addition to the $6 million asked for by Governor Snyder, the legislature approved an additional $3.5 million for support services related to water, including in-home plumbing testing, health testing and services for those affected by lead and the provision and distribution of water for vulnerable individuals.

–END–
-Jason Lorenz

Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI (Cell)
jlorenz@cityofflint.com

Dayne Walling
Mayor

Natasha L. Henderson
City Administrator

Jason Lorenz
Public Information Officer
Office: (810) 237-2039
Cell: PPI
jlorenz@cityofflint.com

For Immediate Release

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In addition to the $6 million asked for by Governor Snyder, the legislature approved an additional $3.5 million for support services related to water, including in-home plumbing testing, health testing and services for those affected by lead and the provision and distribution of water for vulnerable individuals.

–END–

From: Murray, David (GOV)
Sent: Friday, October 16, 2015 2:03 PM
To: Wurfel, Brad (DEQ); Wurfel, Sara (GOV)
Subject: RE: Please bless our reaction to the US EPA announcement?

Just one little change, a matter of subject and verb agreement:

Regarding the EPA announcement:
"We are glad to have the continued technical support and counsel from our federal partners. We have been working closely with the U.S. EPA on the challenges in Flint, including **its** added presence on the city's technical advisory and the Governor's 10-point plan. This is welcome news and we anticipate it will help us implement the Governor's strategy."

From: Wurfel, Brad (DEQ)
Sent: Friday, October 16, 2015 2:01 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Please bless our reaction to the US EPA announcement?

Regarding the EPA announcement:
"We are glad to have the continued technical support and counsel from our federal partners. We have been working closely with the U.S. EPA on the challenges in Flint, including their added presence on the city's technical advisory and the Governor's 10-point plan. This is welcome news and we anticipate it will help us implement the Governor's strategy."

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713
PPI cell

From: Wurfel, Brad (DEQ)
Sent: Monday, October 19, 2015 8:21 AM
To: Wurfel, Sara (GOV); Wyant, Dan (DEQ); Krisztian, George (DEQ)
Subject: Three key messages

1. It is increasingly clear through internal review at DEQ that staff overseeing drinking water mistakenly applied the wrong federal protocol when the city of Flint switched to the Flint River.

2. Today's announcement of new leadership in that division aligns with the states goal: make sure the public health is protected in Flint and elsewhere in the state, and ensure we learn from this so it never happens again.

3. The governor's action plan continues to protect kids and families in Flint, with the switch back to Detroit water last week, free water filtration for all city residents, and inspection of all Flint schools for lead exposure.

4. Flint families who are concerned are encouraged to take advantage of free home water testing through the city and blood lead level testing for children.

Sent from my iPhone

From: Murray, David (GOV)
Sent: Monday, October 19, 2015 4:45 PM
To: Wurfel, Brad (DEQ)
Cc: Wurfel, Sara (GOV)
Subject: Re: PRESS RELEASE: Mayor Dayne Walling Response to MDEQ's Admission of Fault in Flint's Water Emergency

I don't think we said what the mayor is saying we said.

Sent from my iPad

On Oct 19, 2015, at 4:20 PM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:

> Wow.
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> **From:** Jason Lorenz <jlorenz@cityofflint.com>
> **Date:** October 19, 2015 at 4:11:25 PM EDT
> **To:** undisclosed-recipients:;
> **Subject: PRESS RELEASE: Mayor Dayne Walling Response to MDEQ's Admission of Fault in Flint's Water Emergency**
>
> **For Immediate Release**

Mayor Dayne Walling Response to MDEQ's Admission of Fault in Flint's Water Emergency

Flint, Michigan – October 19, 2015 – The following is a response from Mayor Dayne Walling regarding the MDEQ's statement admitting fault in the Flint water emergency:

Today, the Michigan Department of Environmental Quality (MDEQ) acknowledges its leading role in the decision-making that led to the contamination of Flint's drinking water. The people of Flint hear this admission and we demand that the State fully fix this problem they caused. While the State taking responsibility and the switch to Detroit water are steps in the right direction for

Flint, actions speak louder than words. Now, the Governor and the State need to provide tens of millions of dollars to fix Flint's water and infrastructure as well as to provide for the families, children and schools affected. I will continue to push for changes and advocate for our City until every drop of water is 100% safe.

The MDEQ assured Flint that the switch was being handled safely and responsibly. We relied on the information from MDEQ, and clearly that information was wrong. My heart goes out to the children and families who are affected by this issue.

This morning our local Senator Jim Ananich said the following: "We do not know whether the misapplication of federal rules was intentional or due to negligence. That's why the Legislature needs to have a robust role in any investigation, and in ensuring those responsible for Flint's water crisis are held accountable." I applaud Senator Ananich's Statement and I urge the Governor and State Officials to take the necessary steps to ensure accountability so that this never happens again to any community.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI (Cell)
jlorenz@cityofflint.com

<Mayor Response to MDEQ Statement 10.19.15.pdf>

From: Wurfel, Brad (DEQ)
Sent: Monday, October 19, 2015 5:02 PM
To: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: PROPOSED flint journal response.

The DEQ felt it important to acknowledge its responsibility for misinterpreting a federal protocol. We believe it is a critical step to rebuilding trust and confidence in the community.

That recognition is coupled with our demonstrated commitment to actions – near-term and long-term, to do what is necessary to ensure city residents have safe drinking water.

The Governor's after-action review is expected to bring more clarity and provide more answers on what has already happened. The DEQ is now focused on helping implement the Governor's plan – an unprecedented effort to bring resources to protecting the community and addressing lead concerns.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, October 19, 2015 4:13 PM
To: Wurfel, Brad (DEQ)
Subject: FW: PRESS RELEASE: Mayor Dayne Walling Response to MDEQ's Admission of Fault in Flint's Water Emergency

Any comment from your office?

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Monday, October 19, 2015 4:11 PM
Subject: PRESS RELEASE: Mayor Dayne Walling Response to MDEQ's Admission of Fault in Flint's Water Emergency

For Immediate Release

Mayor Dayne Walling Response to MDEQ's Admission of Fault in Flint's Water Emergency

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–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI (Cell)
jlorenz@cityofflint.com

From: Wurfel, Brad (DEQ)
Sent: Monday, October 19, 2015 5:13 PM
To: Murray, David (GOV)
Cc: Wurfel, Sara (GOV)
Subject: Re: Third-Party review question

Please do!

Sent from my iPhone

On Oct 19, 2015, at 5:11 PM, Murray, David (GOV) <MurrayD1@michigan.gov> wrote:

> I know this one and can call John.
>
> Sent from my iPhone
>
> On Oct 19, 2015, at 2:32 PM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:
>
> > Where we at with this announcement?
> >
> > Sent from my iPhone
> >
> > Begin forwarded message:
> >
> > **From:** "Wisely, John" <jwisely@freepress.com>
> > **Date:** October 19, 2015 at 12:52:49 PM EDT
> > **To:** "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
> > **Subject: Third-Party review question**
> >
> > Brad:
> >
> > The statement from Dan Wyant includes this:
> > The Governor has called for an independent, third-party after-action review.
> >
> > Questions:
> > Who/what is the third party?
> > Is it the legislature?
> > A committee of experts to be appointed?
> > Senate Minority leader (from Flint) wants legislative review. Is that something the state is prepared to assist with?
> > Please let me know asap.
>
> John Wisely
> Reporter

Phone: 313-222-6825
jwisely@freepress.com
Follow me on Twitter: @jwisely

<image001.jpg>
Freep.com

<image001.jpg>

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 20, 2015 1:44 PM
To: 'Michelle Zdrodowski'; Baird, Richard (GOV); Paul Conners; Saxton, Thomas (Treasury); Khouri, Nick (TREASURY); Stanton, Terry A. (Treasury); Workman, Wayne (TREASURY); Wurfel, Sara (GOV); Murray, David (GOV); haddenf@michigan.gov
Cc: Darnell Earley; Kelly Rossman-McKinney
Subject: RE: Earley Flint Water OpEd-FOR REVIEW AND INPUT

We think it is fine. Jarrod suggests strongly that you leave out the Ghandhi quote. We think it detracts from your overall message.

From: Michelle Zdrodowski [mailto:michelle.zdrodowski@detroitk12.org]
Sent: Monday, October 19, 2015 5:13 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>; Paul Conners <connersp@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Khouri, Nick (TREASURY) <KhouriN@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; haddenf@michigan.gov
Cc: Darnell Earley <darnell.earley@detroitk12.org>; Kelly Rossman-McKinney <krossman@truscottrossman.com>
Subject: Earley Flint Water OpEd-FOR REVIEW AND INPUT

All,

Darnell Earley asked that I send you the draft of an OpEd regarding the Flint Water issue that he would like to send to the media this week.

He is seeking your input before sending, and is looking for any feedback you might have by tomorrow afternoon. He has intentionally placed it on his EM letterhead as he is still acting in the capacity of an EM.

Thank you.

Michelle Z.

Michelle A. Zdrodowski
Executive Director of Communications
Detroit Public Schools
3011 W. Grand Boulevard, 14th Floor
Detroit, MI 48202
313.873.3238, office
PPI mobile

From: Stanton, Terry A. (Treasury)
Sent: Tuesday, October 20, 2015 1:57 PM
To: Darnell Earley; Muchmore, Dennis (GOV); Michelle Zdrodowski; Baird, Richard (GOV); Paul Conners; Saxton, Thomas (Treasury); Khouri, Nick (TREASURY); Workman, Wayne (TREASURY); Wurfel, Sara (GOV); Murray, David (GOV); haddenf@michigan.gov
Cc: Kelly Rossman-McKinney
Subject: RE: Earley Flint Water OpEd-FOR REVIEW AND INPUT

Per Tom, you may also want to more directly note that DWSD **terminated** the contract with Flint, rather than to say "as the contract with DWSD expired in April 2014…" in the 5th paragraph.

From: Darnell Earley [mailto:darnell.earley@detroitk12.org]
Sent: Tuesday, October 20, 2015 1:45 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Michelle Zdrodowski <michelle.zdrodowski@detroitk12.org>; Baird, Richard (GOV) <bairdr@michigan.gov>; Paul Conners <connersp@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Khouri, Nick (TREASURY) <KhouriN@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; haddenf@michigan.gov
Cc: Kelly Rossman-McKinney <krossman@truscottrossman.com>
Subject: Re: Earley Flint Water OpEd-FOR REVIEW AND INPUT

So noted...Thanks!

DE

Darnell Earley, ICMA-CM, MPA
Emergency Manager
Detroit Public Schools

From: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Sent: Tuesday, October 20, 2015 1:44 PM
To: Michelle Zdrodowski; Baird, Richard (GOV); Paul Conners; Saxton, Thomas (Treasury); Khouri, Nick (TREASURY); Stanton, Terry A. (Treasury); Workman, Wayne (TREASURY); Wurfel, Sara (GOV); Murray, David (GOV); haddenf@michigan.gov
Cc: Darnell Earley; Kelly Rossman-McKinney
Subject: RE: Earley Flint Water OpEd-FOR REVIEW AND INPUT

We think it is fine. Jarrod suggests strongly that you leave out the Ghandhi quote. We think it detracts from your overall message.

From: Michelle Zdrodowski [mailto:michelle.zdrodowski@detroitk12.org]
Sent: Monday, October 19, 2015 5:13 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>; Paul Conners <connersp@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Khouri, Nick (TREASURY)

<KhouriN@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; haddenf@michigan.gov
Cc: Darnell Earley <darnell.earley@detroitk12.org>; Kelly Rossman-McKinney <krossman@truscottrossman.com>
Subject: Earley Flint Water OpEd-FOR REVIEW AND INPUT

All,

Darnell Earley asked that I send you the draft of an OpEd regarding the Flint Water issue that he would like to send to the media this week.

He is seeking your input before sending, and is looking for any feedback you might have by tomorrow afternoon. He has intentionally placed it on his EM letterhead as he is still acting in the capacity of an EM.

Thank you.

Michelle Z.

Michelle A. Zdrodowski
Executive Director of Communications
Detroit Public Schools
3011 W. Grand Boulevard, 14th Floor
Detroit, MI 48202
313.873.3238, office
PPI mobile

From: Murray, David (GOV)
Sent: Wednesday, October 21, 2015 8:55 AM
To: Wurfel, Sara (GOV)
Subject: RE: EAA
Attachments: PR 151020 Flint after action 2.docx

Yes. Here's an updated version of the Flint release.

-----Original Message-----
From: Wurfel, Sara (GOV)
Sent: Wednesday, October 21, 2015 8:52 AM
To: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: EAA

Can you please make sure Karen has whole back story on this issue and points we've been using?

Sent from my iPhone

RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
EXECUTIVE OFFICE
LANSING

BRIAN CALLEY
LT. GOVERNOR

Contacts: Sara Wurfel or Dave Murray 517-335-6397	**FOR IMMEDIATE RELEASE** Wednesday, Oct. 21, 2015

Gov. Rick Snyder announces Flint Water After Action Report Commission to review state actions, offer recommendations

Experts in health, policy will provide ongoing monitoring of city water system

LANSING, Mich. – Gov. Rick Snyder today announced a new task force to review the state's actions regarding water usage and testing in Flint and offer recommendations on future guidelines for water testing.

The commission also will monitor the transition of Flint's city water system back to the Great Lakes Water Authority, and its eventual transition to the Karegnondi Water Authority pipeline.

Commission members include experts in policy, public health and medicine from both sides of the aisle, and will be co-chaired by Ken Sikkema of Public Sector Consultants and Chris Kolb, of the Michigan Environmental Council. Also serving will be Dr. Matthew Davis of the University of Michigan Health System, Eric Rothstein, of the Galardi Rothstein Group and Dr. Lawrence Reynolds of Hurley Medical Center.

"Transitioning back to the Great Lakes Water Authority is a good first step to protecting public health in Flint, but it's not the last step," Snyder said. "Bringing in outside experts to evaluate our actions and help monitor and advise on technical issues will be key to continuing work on the comprehensive action plan and ensuring safe drinking water for all the citizens of Flint."

Ken Sikkema is a senior policy fellow at Public Sector Consultants, where he specializes in public finance, environment, and energy policy. Prior to joining the firm, Sikkema served in both the Michigan House and Senate, culminating with four years as Senate majority leader. He has also served as both an adjunct and visiting professor at Grand Valley State University.

Chris Kolb is president of the Michigan Environmental Council, a statewide coalition of 70 environmental, public health and faith-based nonprofit groups. Before joining the MEC, Kolb represented Ann Arbor in the state House for six years and served eight years on the Ann Arbor City Council. He has been president of the MEC for eight years.

Matthew Davis, M.D., M.A.P.P., is professor of pediatrics and internal medicine at the University of Michigan Health System and Professor of Public Policy at the Gerald R. Ford School at the University of Michigan, having joined the faculty in 2000. He is the founding Director of the C.S. Mott Children's Hospital National Poll on Children's Health

and the National Voices Project. Davis also previously served as the chief medical executive of the Michigan Department of Community Health/Department of Health and Human Services.

Eric Rothstein is a national water issues consultant and principal at the Galardi Rothstein Group. He served as an independent advisor on the creation of the Great Lakes Water Authority. Rothstein also has served as Jefferson County, Alabama's rate consultant and municipal adviser for litigation related to the county's bankruptcy and issuance of $1.7 billion in sewer warrants and led strategic financial planning for the City of Atlanta's Department of Watershed Management. He has more than 30 years of experience in water, wastewater and stormwater utility finance and rate-making assessments.

Lawrence Reynolds, M.D., is a pediatrician in Flint affiliated with Hurley Medical Center. He received his medical degree from Howard University College of Medicine and has been in practice for 36 years. Reynolds previously was affiliated with Mott Children's Health Center. He has served as president of the Genesee County Medical Society and the Michigan Chapter of the American Academy of pediatrics.

Snyder has said reconnecting with the authority will not completely resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control.

To best protect public health, state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure. The Michigan Departments of Environmental Quality and Health and Human Services are continuing to provide free water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

####

From: Wurfel, Brad (DEQ)
Sent: Wednesday, October 21, 2015 12:34 PM
To: Murray, David (GOV); Wurfel, Sara (GOV)
Subject: FW: Flint Journal-MLive seeking comment on these requests for EPA investigation
Attachments: 2015.10.21 EPA Review Request FINAL.pdf; 10-21-15, Letter, EPA-McCarthy.pdf

Review and call me please.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Wednesday, October 21, 2015 12:12 PM
To: Wurfel, Brad (DEQ); cassell.peter@epa.gov
Subject: Flint Journal-MLive seeking comment on these requests for EPA investigation

Hi. We are seeking comment on these requests. I'm working on it as I send this but will add any comment from you when I receive it.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

SENATE MINORITY LEADER
JIM ANANICH

517.373.0412
senjananich@senate.michigan.gov
senatedems.com/ananich

/jimananich @jimananich

October 21, 2015

Gina McCarthy
Administrator
United States Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Avenue, N.W.
Mail Code 6106A
Washington, DC 20460

Susan Hedman
Regional Administrator
United States Environmental Protection Agency Region 5
Ralph Metcalfe Federal Building
77 West Jackson Boulevard
Chicago, IL 60604

Re: EPA Review Needed on Flint, Michigan Water Treatment

Administrator McCarthy and Regional Director Hedman,

Today Congressman Dan Kildee requested that the United States Environmental Protection Agency conduct an investigation into the water system in Flint, Michigan. I agree that such an investigation is vital to ensuring that the people responsible for Flint's dangerous water quality are held accountable. Similar to Congressman Kildee's request, I am requesting the EPA conduct a review of the Michigan Department of Environmental Quality's (MDEQ) oversight of water treatment in Flint as provided for in the Lead and Copper Rule, 40 CFR Sec. 141.80.

After decades of relying on water from the Detroit Water and Sewerage Department (DWSD), Flint began treating its own water from the Flint River in April 2014 at the behest of state-appointed Emergency Managers. DWSD had used — and continues to use — anti-corrosion treatments in its water to prevent lead leaching from an aging infrastructure into residents' drinking water. For a number of reasons, raw water from the Flint River is significantly more corrosive than the lake water that DWSD uses. Despite this, Flint chose not to treat the raw Flint River water by any method traditionally associated with preventing lead corrosion. Multiple consultants and the EPA advised the city to use additional corrosion control measures, but that advice went unheeded by the City of Flint and the MDEQ.

Foreseeably, lead has been seeping into Flint's drinking water for more than a year, causing an alarming rise in the number of children in Flint with elevated blood lead levels. Independent research conducted by Virginia Tech professor Marc Edwards indicated high lead levels in tap water, and a study led by Hurley Medical Center pediatrician Dr. Mona Hanna-Attisha revealed that in high-risk areas of the city, the rate of lead overexposure among children more than doubled since switching water sources. State data have confirmed these results.

Additionally, several questions remain regarding how Flint and state officials conducted water sampling under the Lead and Copper Rule. Allegedly, officials did not target samples in high-risk Tier 1 locations or repeat locations in subsequent tests. Consumers were also instructed to pre-flush their taps prior to collecting samples, resulting in lower lead level results. It is unclear whether a sufficient number of samples were taken or why MDEQ excluded two high lead level samples from Flint's July 2015 water quality report.

SENATE MINORITY LEADER
JIM ANANICH

517.373.0412
senjananich@senate.michigan.gov
senatedems.com/ananich

/jimananich @jimananich

The State of Michigan has pledged to help reconnect the City of Flint to DWSD and take additional steps to help remediate the lead problem. However, these are stopgap measures that will never undo the damage already done.

Ultimately, the EPA retains the ability and responsibility to oversee the state's efforts to obtain and maintain safe drinking water for its residents. As such, I appreciate that the EPA has established the Flint Safe Drinking Water Task Force. However, it also is within the EPA's power to review the actions of MDEQ and the City of Flint as they pertain to lead testing and treatment under the Lead and Copper Rule. We want to ensure Flint remains compliant once it switches its permanent water source to the Karegnondi Water Authority.

I respectfully request that, under 40 CFR Sec. 142.19, Regional Administrator Hedman review MDEQ's determinations regarding corrosion control for lead in Flint, Michigan. Regardless of the findings, I am also requesting that Regional Administrator Hedman make public all evidence gathered during the course of that review. Michigan citizens deserve to know whether MDEQ is operating safely and effectively.

If you have any questions, please contact my office at senjananich@senate.mi.gov or (517) 373-0142. Thank you for your consideration.

Sincerely,

Jim Ananich
Senate Democratic Leader
District 27

cc:
Governor Rick Snyder
U.S. Representative Dan Kildee
U.S. Senator Debbie Stabenow
U.S. Senator Gary Peters
State Representative Sheldon Neeley, District 34
State Representative Phil Phelps, District 49
Mayor Dayne Walling, City of Flint
Howard Croft, City of Flint
Susan Hedman, EPA
Thomas Poy, EPA
Michael Schock, EPA-ORD
Darren Lytle, EPA-ORD
Denise Fortin, EPA
Dan Wyant, MDEQ
Liane Shekter-Smith, MDEQ
Pat Cook, MDEQ
Stephen Busch, MDEQ
Brad Wurfel, MDEQ
Marc Edwards, Virginia Tech

DANIEL T. KILDEE
5TH DISTRICT, MICHIGAN

COMMITTEE ON
FINANCIAL SERVICES

SUBCOMMITTEE ON
HOUSING AND INSURANCE

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SENIOR WHIP

DEMOCRATIC POLICY AND
COMMUNICATIONS COMMITTEE

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Washington, DC 20515

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(810) 238-8658 (FAX)

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/REPDANKILDEE
@REPDANKILDEE

October 21, 2015

Ms. Gina McCarthy
Administrator
Environmental Protection Agency
1200 Pennsylvania Ave. NW
Washington, D.C. 20460

Administrator McCarthy:

As you know from our phone call last week, the Flint water crisis remains a critically important issue. It has become clear to me that unacceptable lead levels were a failure of government at every level. This includes both at the Michigan Department of Environmental Quality (MDEQ) and the U.S. Environmental Protection Agency (EPA). Despite evidence presented indicating the water quality was unsafe, repeated assurances were given by both the MDEQ and EPA that the water was safe to consume. Now we have learned that lead levels for months have been at dangerous levels that could potentially cause irreparable harm to Flint residents, particularly children, the elderly and those with weak immune systems.

In order to restore confidence, and to ensure that these failures never happen again, I believe that the EPA needs to conduct a thorough investigation into the causes of the water problems in Flint. The failure of government to provide safe drinking water to Flint is unacceptable, and there must be accountability.

Specifically, I am requesting assurances that, at a minimum, the EPA conduct a full review of its oversight of state programs, given delegated authority through the Safe Drinking Water Act and whether the MDEQ properly enforced the Lead and Copper Rule (LCR) and other safe drinking water programs. Additionally, an investigation that fully answers the following questions:

- Was the EPA aware that the MDEQ was using guidelines under the LCR that applied to cities with a population of less than 50,000 and not for the population of Flint, which is 99,000?

- Did the EPA notify MDEQ that the city of Flint should add a corrosion control treatment (CCT) to their drinking water following the switch to the Flint River?

- When did the EPA become aware that the city of Flint was using a lime softening agent as a CCT?

- What actions did the EPA take once they learned MDEQ was not requiring the city of Flint to use a proper CCT?

- Did EPA evaluate the testing guidelines that MDEQ was using in the city of Flint?

- When did the EPA first become aware of the potential elevated lead levels in Flint's water?

- After becoming aware of the potential elevated levels of lead, was the EPA required to notify anyone? If the EPA is not required to notify anyone, why not?

- Is there anything that prevents the EPA from notifying federally elected officials of potentially unsafe water in the city of Flint?

- Since switching to the Flint River, has EPA verified the city of Flint's compliance with the LCR themselves?

- Has EPA reviewed MDEQ's performance in regards to its delegated authority to enforce the LCR and other Safe Drinking Water Act regulations? If not, how come?

Unfortunately, the citizens of Flint are the victims in this situation. They deserve a thorough investigation and answers to these questions.

Due to the immediate need of the community, I am requesting a response by Tuesday, October 27, 2015. If you are unable or unwilling to conduct a thorough and independent review, I ask that you inform me by that date so I can move forward in seeking the answers my community deserves.

I look forward to hearing from you on this critical and important matter.

Sincerely,

Dan Kildee
MEMBER OF CONGRESS

From: Murray, David (GOV)
Sent: Wednesday, October 21, 2015 12:53 PM
To: Wurfel, Sara (GOV); Wurfel, Brad (DEQ); Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS); Eisner, Jennifer (DHHS)
Cc: Hollins, Harvey (GOV)
Subject: Planned release on Flint Water Task Force
Attachments: PR 151020 Flint after action 6.docx

Team,

Here's the planned release about Flint Water Task Force that is expected to be issued this afternoon. Please consider stakeholders you might want to notify.

Dave

Gov. Rick Snyder announces Flint Water Task Force to review state, federal and municipal actions, offer recommendations

Experts in public health, water management, environmental protection to focus on steps to protect residents

LANSING, Mich. – Gov. Rick Snyder today announced the creation of an independent advisory task force charged with reviewing actions regarding water use and testing in Flint and offer recommendations for future guidelines to protect the health and safety of all state residents.

Task force members include experts in public health and medicine, water management, and environmental protection from both sides of the aisle, and will be co-chaired by Ken Sikkema of Public Sector Consultants and Chris Kolb, of the Michigan Environmental Council. Also serving will be Dr. Matthew Davis of the University of Michigan Health System, Eric Rothstein, of the Galardi Rothstein Group and Dr. Lawrence Reynolds of Mott Children's Health Center in Flint.

"Transitioning back to the Detroit Water and Sewerage Department-Great Lakes Water Authority is a good first step to protecting public health in Flint, but it's not the last step," Snyder said. "Bringing in outside experts to evaluate our actions and help monitor and advise on potential changes to law, procedures and practices will be key to continuing work on the comprehensive action plan and ensuring safe drinking water for all the residents in Flint and all of Michigan."

Snyder said the administration will fully cooperate with task force members, saying he wants an unbiased report focusing on steps taken in the past and recommendations that could improve practices to ensure all residents have access to safe, clean water.

Ken Sikkema is a senior policy fellow at Public Sector Consultants, where he specializes in public finance, environment, and energy policy. Prior to joining the firm, Sikkema served in both the Michigan House and Senate, culminating with four years as Senate majority leader. He has also served as both an adjunct and visiting professor at Grand Valley State University.

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Snyder has said reconnecting with the authority is a critical step to resolving water quality issues and addressing related health concerns. It will not immediately resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control.

To best protect public health, state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure. The Michigan Departments of Environmental Quality and Health and Human Services are continuing to provide free water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

####

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
EXECUTIVE OFFICE
LANSING

BRIAN CALLEY
LT. GOVERNOR

Contacts: Sara Wurfel or Dave Murray 517-335-6397	**FOR IMMEDIATE RELEASE** Wednesday, Oct. 21, 2015

Gov. Rick Snyder announces Flint Water Task Force to review state, federal and municipal actions, offer recommendations

Experts in public health, water management, environmental protection to focus on steps to protect residents

LANSING, Mich. – Gov. Rick Snyder today announced the creation of an independent advisory task force charged with reviewing actions regarding water use and testing in Flint and offer recommendations for future guidelines to protect the health and safety of all state residents.

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####

From: Murray, David (GOV)
Sent: Wednesday, October 21, 2015 2:53 PM
To: 'Jake Neher'; Wurfel, Sara (GOV)
Subject: RE: NEWS RELEASE: Gov. Rick Snyder announces Flint Water Task Force to review state, federal and municipal actions, offer recommendations

Sure, Jake. I can do this.

-----Original Message-----
From: Jake Neher [mailto:jaken@mprn.org]
Sent: Wednesday, October 21, 2015 2:53 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Re: NEWS RELEASE: Gov. Rick Snyder announces Flint Water Task Force to review state, federal and municipal actions, offer recommendations

Is there someone who could talk on tape about this? Hoping to get a phone interview in before 3:30, if possible. Thanks.

Jake Neher
State Capitol Reporter
Michigan Public Radio Network
jaken@mprn.org
PPI [cell]
819 N. Washington Ave.
Lansing, Michigan 48906
>>> "GOV Newsroom" <govnewsroom@govsubscriptions.michigan.gov> 10/21/15 2:07 PM >>>
COMM News Release

Contacts: Sara Wurfel <wurfels@michigan.gov> or Dave Murray <murrayd1@michigan.gov>517-335-6397

*FOR IMMEDIATE RELEASE
*Wednesday, Oct. 21, 2015

*Gov. Rick Snyder announces Flint Water Task Force to review state, federal and municipal actions, offer recommendations [http://www.michigan.gov/snyder/0,4668,7-277-57577_57657-367761--,00.html] *

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####

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[https://public.govdelivery.com/accounts/MIGOV/subscriber/new]

This email was sent to jaken@mprn.org on behalf of: The Executive Office of the Governor · 111 South Capitol Avenue · Lansing, MI 48909 ·
517-335-7858

From: Wurfel, Brad (DEQ)
Sent: Wednesday, October 21, 2015 3:09 PM
To: Cassell, Peter; Ronald Fonger
Cc: Murray, David (GOV); Wurfel, Sara (GOV)
Subject: RE: Flint Journal-MLive seeking comment on these requests for EPA investigation
Attachments: PR 151020 Flint after action 6.pdf

Please attribute this to a DEQ spokesman or DEQ.

The DEQ is aware of these letters from our elected officials.
The Governor today announced the state's Flint Water Task Force -- an independent group of experts called to address many of the points of concern expressed by the Senator and the Congressman.

From: Cassell, Peter [mailto:cassell.peter@epa.gov]
Sent: Wednesday, October 21, 2015 2:20 PM
To: Ronald Fonger; Wurfel, Brad (DEQ)
Subject: RE: Flint Journal-MLive seeking comment on these requests for EPA investigation

Please attribute this to an EPA spokesperson or the EPA.

"EPA has received the letters from Congressman Kildee and State Senator Ananich and will review them"

Thanks!

Pete Cassell
Press Officer
U.S. Environmental Protection Agency

77 West Jackson Blvd (P-19J)
Chicago, IL 60604-3590
Office (312) 886-6234
Mobile PPI

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Wednesday, October 21, 2015 11:12 AM
To: wurfelb@michigan.gov; Cassell, Peter
Subject: Flint Journal-MLive seeking comment on these requests for EPA investigation

Hi. We are seeking comment on these requests. I'm working on it as I send this but will add any comment from you when I receive it.
Thanks,

Ron Fonger
MLive Media Group

Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
EXECUTIVE OFFICE
LANSING

BRIAN CALLEY
LT. GOVERNOR

Contacts: Sara Wurfel or Dave Murray 517-335-6397	**FOR IMMEDIATE RELEASE** Wednesday, Oct. 21, 2015

Gov. Rick Snyder announces Flint Water Task Force to review state, federal and municipal actions, offer recommendations

Experts in public health, water management, environmental protection to focus on steps to protect residents

LANSING, Mich. – Gov. Rick Snyder today announced the creation of an independent advisory task force charged with reviewing actions regarding water use and testing in Flint and offer recommendations for future guidelines to protect the health and safety of all state residents.

Task force members include experts in public health and medicine, water management, and environmental protection from both sides of the aisle, and will be co-chaired by Ken Sikkema of Public Sector Consultants and Chris Kolb, of the Michigan Environmental Council. Also serving will be Dr. Matthew Davis of the University of Michigan Health System, Eric Rothstein, of the Galardi Rothstein Group and Dr. Lawrence Reynolds of Mott Children's Health Center in Flint.

"Transitioning back to the Detroit Water and Sewerage Department-Great Lakes Water Authority is a good first step to protecting public health in Flint, but it's not the last step," Snyder said. "Bringing in outside experts to evaluate our actions and help monitor and advise on potential changes to law, procedures and practices will be key to continuing work on the comprehensive action plan and ensuring safe drinking water for all the residents in Flint and all of Michigan."

Snyder said the administration will fully cooperate with task force members, saying he wants an unbiased report focusing on steps taken in the past and recommendations that could improve practices to ensure all residents have access to safe, clean water.

Ken Sikkema is a senior policy fellow at Public Sector Consultants, where he specializes in public finance, environment, and energy policy. Prior to joining the firm, Sikkema served in both the Michigan House and Senate, culminating with four years as Senate majority leader. He has also served as both an adjunct and visiting professor at Grand Valley State University.

Chris Kolb is president of the Michigan Environmental Council, a statewide coalition of 70 environmental, public health and faith-based nonprofit groups. Before joining the MEC, Kolb represented Ann Arbor in the state House for six years and served six years on the Ann Arbor City Council. He has been president of the MEC for six years.

Matthew Davis, M.D., M.A.P.P., is professor of pediatrics and internal medicine at the University of Michigan Health System and professor of public policy at the Gerald R. Ford School at the University of Michigan, having joined the faculty in 2000. Davis also is a professor of health management and policy at the School of Public Health. He previously served as the chief medical executive of the Michigan Department of Community Health/Department of Health and Human Services.

Eric Rothstein is a national water issues consultant and principal at the Galardi Rothstein Group. He served as an independent advisor on the creation of the Great Lakes Water Authority. Rothstein also has served as Jefferson County, Alabama's rate consultant and municipal adviser for litigation related to the county's bankruptcy and issuance of $1.7 billion in sewer warrants and led strategic financial planning for the City of Atlanta's Department of Watershed Management. He has more than 30 years of experience in water, wastewater and stormwater utility finance and rate-making assessments.

Lawrence Reynolds, M.D., is a pediatrician in Flint who serves as president of the Mott Children's Health Center. He received his medical degree from Howard University College of Medicine and has been in practice for 36 years. He has served as president of the Genesee County Medical Society and the Michigan Chapter of the American Academy of Pediatrics. He has been honored for his humanitarian and advocacy efforts on behalf of children from the Community Foundation of Greater Flint.

Snyder has said reconnecting with the authority is a critical step to resolving water quality issues and addressing related health concerns. It will not immediately resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control.

To best protect public health, state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure. The Michigan Departments of Environmental Quality and Health and Human Services are continuing to provide free water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

####

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 22, 2015 9:47 AM
To: Wurfel, Sara (GOV)
Subject: RE: state money for detroit water

Push back hard on this. Natasha Henderson is becoming a liability.

From: Wurfel, Sara (GOV)
Sent: Thursday, October 22, 2015 9:35 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: FW: state money for detroit water
Importance: High

Please see below.

No good deed goes unpunished. This looks like may be next big issue.

I thought GLWA-DWSD was NOT going to require the entire sum all up front?

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Thursday, October 22, 2015 9:28 AM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>
Subject: state money for detroit water

Sara:
I was at a City Council meeting last night when Flint City Administrator Natasha Henderson said the state has only wired Flint $2 million of the $6 million approved by the state Legislature.
She said the city has been told it will receive an additional $2 million in January and another $2 million in April.
Henderson said she's asked that the money be sent immediately because the city was required to pay Detroit the entire $12 million upfront, before the water was reconnected, and its water and sewer fund balance has dropped significantly as a result.
Several council members also spoke about this, and Council President Josh Freeman called the payment plant "beyond ridiculous" given the city's financial position.
Is there someone who can talk to us about this?
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com

address 540 S. Saginaw St. #101, Flint MI 48502

From: Stanton, Terry A. (Treasury)
Sent: Thursday, October 22, 2015 10:52 AM
To: Wurfel, Sara (GOV)
Cc: Weiss, Kurt (DTMB)
Subject: RE: state money for detroit water

The $ (supplemental) was appropriated to DEQ. Sounds like the issue at hand may be a City error. Conference call at 11. Will follow-up after that.

From: Wurfel, Sara (GOV)
Sent: Thursday, October 22, 2015 9:35 AM
To: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>
Cc: Roberts, John (DTMB) <RobertsJ9@michigan.gov>; Weiss, Kurt (DTMB) <WeissK1@michigan.gov>
Subject: FW: state money for detroit water

Please see below. Calling to touch base shortly.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Thursday, October 22, 2015 9:28 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: state money for detroit water

Sara:
I was at a City Council meeting last night when Flint City Administrator Natasha Henderson said the state has only wired Flint $2 million of the $6 million approved by the state Legislature.
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Is there someone who can talk to us about this?
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Stanton, Terry A. (Treasury)
Sent: Thursday, October 22, 2015 12:17 PM
To: Wurfel, Sara (GOV)
Cc: Weiss, Kurt (DTMB); Wurfel, Brad (DEQ)
Subject: Issue

Just spoke with Wayne. He has calls in to Flint and we are awaiting written confirmation that the city made the up-front payment to DWSD.

If you need to respond before we receive that (from the city admin. or the mayor) he suggests something along the lines of the following:

Our understanding of the original plan to re-connect with DWSD called for monthly payments from the city. Without consulting the State or the Mott Foundation, the city agreed to an up-front payment to DWSD (of the full amount).

Upon receiving written confirmation that the full payment was made to DWSD, the State will wire to the city, the remainder of the $6m appropriation for the reconnection to DWSD.

From: Michelle Zdrodowski <michelle.zdrodowski@detroitk12.org>
Sent: Thursday, October 22, 2015 6:46 PM
To: connersp@michigan.gov; Muchmore, Dennis (GOV); Walsh, John (GOV); McPhee, Karen (GOV); Murray, David (GOV); Khouri, Nick (TREASURY); Baird, Richard (GOV); Stanton, Terry A. (Treasury); Saxton, Thomas (Treasury); Wurfel, Sara (GOV); Hollins, Harvey (GOV)
Cc: Darnell Earley; Kelly Rossman-McKinney
Subject: Final Flint Water OpEd
Attachments: Flint Water Decision Clarification Op-Ed_FINAL.pdf

All,

Attached is the final Flint Water OpEd that was submitted to the Flint Journal, DetNews, Freep, Michigan Chronicle this evening.

Any questions, please advise.

MZ

Michelle A. Zdrodowski
Executive Director of Communications
Detroit Public Schools
3011 W. Grand Boulevard, 14th Floor
Detroit, MI 48202
313.873.3238, office
PPI mobile

Changes to Flint Water System Made By Local Leaders, Not Emergency Managers
Author: Darnell Earley, ICMA-CM, MPA

It is critically important that the record be set straight about the decision-making and approval processes that led to Flint joining the Karegnondi Water Authority (KWA) with the use of Flint River water as the interim water supply. The fact is, that the river has served and been used as the back-up supply for decades, and this was the rationale given to me by staff and Mayor Walling, who also serves as chairperson of the KWA board. Contrary to reports in the media and rhetoric being espoused by individuals, the decision was made at the local level, by local civic leaders.

The decision to separate from Detroit Water and Sewerage Department and go with the KWA, which included the decision to pump Flint River water in the interim, were both a part of a long-term plan that was approved by Flint's Mayor, and confirmed by a City Council vote of 7-1 on March 25, 2013. This plan was presented to me when I was appointed as Flint Emergency Manager in October 2013 - a full seven months after City Council's affirmative vote.

Genesee County Drain Commissioner Jeff Wright also made the affirmative vote by the City Council a necessary condition of joining the KWA, and applauded the decision in a March 26, 2013 news release, saying, "…I have said from the beginning that this decision must be made by Flint's City Council and Mayor…I am glad that the residents of Flint were able to have their voices heard via their elected officials."

The Mayor's approval of the plan, and the subsequent near unanimous vote by City Council were in no way coerced, forced or demanded by the State, nor any Emergency Manager. Council's affirmative vote was supported and officially signed into EM Executive Order by then Emergency Manager Edward Kurtz on March 29, 2013. A subsequent order Kurtz signed on June 26, 2013, speaks specifically to the, "… upgrading of the Flint Water Plant to ready it to treat water from the Flint River to serve as the primary drinking water source for approximately two years and then converting to KWA delivered lake water."

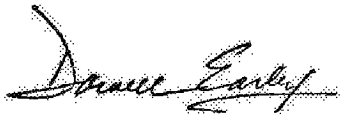
When I began my term as Emergency Manager, it fell to me to oversee the implementation of the previously accepted and approved plans, as the DWSD terminated the contract with Flint in April 2014. It did not fall to me to question, second guess or to invalidate the actions that were taken prior to my appointment.

At the time the decision was made there was no way to predict such an unfortunate outcome. I would also offer that had local leaders known then what they know now, parts of their decision may have been entirely different. What the City of Flint and the State of Michigan are now dealing with is the management of an unintended consequence resulting in a negative outcome from an otherwise sound public policy decision. There is no "blame" to affix on any Emergency Manager for that.

As the solutions are put into place to address the serious concerns at hand, I believe that everyone's attention should now turn toward another serious concern -- what is being done in the long-term to replace the aged and crumbling water distribution systems that exists throughout Flint and Genesee County, which was a major contributing factor to this serious issue in the first place.

I am a strong believer that the truth supported by fact, speaks for itself. This was a local decision that was made by local civic leaders. Anyone who says otherwise is being disingenuous for whatever reason.

Sincerely,



Darnell Earley, ICMA-CM, MPA

From: Bach, Katie (MSHDA)
Sent: Thursday, October 22, 2015 8:10 PM
To: Biehl, Laura (GOV); Murray, David (GOV); Wurfel, Sara (GOV)
Subject: Fwd: Join Me Wednesday for an Update on Flint Water

Assuming you've seen this?
It came to my Stare email.

Sent from my iPhone

Begin forwarded message:

From: Congressman Dan Kildee <MI05DKima@mail.house.gov>
Date: October 22, 2015 at 6:39:37 PM EDT
To: <bachk@michigan.gov>
Subject: Join Me Wednesday for an Update on Flint Water

Click here to open this e-mail in its own browser window Click here to open a plain text version of this email

News from Representative Kildee
Click here to open this e-mail in its own browser window Click here to open a plain text version of this email

Dear ,

The Flint water crisis is a failure of government at every level, and I am committed to increasing transparency and finding answers to ensure that these failures never happen again. That's why I have called for an investigation into the causes of water problems in Flint.

Simply put, high lead levels in Flint's drinking water are unacceptable, and there must be accountability.

As part of my ongoing efforts, I am holding a **telephone town hall with constituents on Wednesday, October 28th, at 7 p.m. ET** to provide an update on my efforts. I'll be joined by both Dr. Mona Hanna-Attisha and Dr. Marc Edwards, who both conducted critical tests that exposed unacceptable lead levels in Flint. On the live call, we will also answer questions from Flint residents.

If you're interested in joining our conversation, please RSVP here, or fill out the form below.

What is your preferred Prefix (Mr./Mrs./Ms./Dr., etc)?
[ ]
What is your First Name?
[ ]
What is your Last Name?
[ ]
What phone number would you like to use to participate in the telephone town hall?

[ ]
What is your Email Address?
[ ]
What is your Address?
[ ]
What is your Zip Code?
[ ]

[RSVP!]

Click to open in a separate window

For months, I have been pressing state and federal agencies for immediate resources and action to improve and restore confidence in water quality. At the federal level, I am pushing for resources to ensure the safety of water, but also make much-needed repairs to our city's aging water system and infrastructure. *The Flint Journal* covered these federal efforts in March. You can view them here.

Additionally, I welcome the announcement recently that the U.S. Environmental Protection Agency will send technical advisors to Flint to assist the city and state. I have repeatedly asked the EPA to send these much-needed experts to help improve the water quality and hopefully restore some public confidence in the safety of our water.

Serious issues remain, and there is a long way to go before complete confidence in the city's drinking water is restored. I am committed to working to ensure that Flint residents get a thorough investigation and answers to their questions.

I hope you'll join me next Wednesday for a telephone town hall update on Flint water.

Sincerely,

Dan Kildee

Washington D.C. Office
227 Cannon HOB
Washington, DC 20515
Phone: (202) 225-3611
Hours: 9:00 a.m. - 5:00 p.m.

District Office
111 East Court Street, #3B
Flint, MI 48502
Phone: (810) 238-8627
Hours: 9:00 a.m. - 5:00 p.m.

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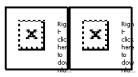

From: Minicuci, Angela (DHHS)
Sent: Friday, October 23, 2015 9:12 AM
To: Murray, David (GOV); Wurfel, Brad (DEQ); Wurfel, Sara (GOV); Brown, Jessica (GOV)
Cc: Lasher, Geralyn (DHHS); Eisner, Jennifer (DHHS); Ridley, Nancy (DHHS)
Subject: Letters
Attachments: Provider letter_DRAFT3_edited.docx; Parent Letter_Draft 5_October 22.docx

Good morning,

Attached are the parent and provider letters that we have been working on. These are on the fast track and we need comments back to us as soon as possible.

Thank you,

Angela Minicuci
Office of External Relations and Communications
Michigan Department of Health and Human Services
Office: (517) 241-2112
Mobile: PPI
minicuciа@michigan.gov
www.michigan.gov/mdhhs

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PROVIDER DRAFT LETTER V.2
October 22, 2015
LoRocco Edits,Travis Edits,Attisha Edits, Peeler Edits
Cross checked with parent letter

Dear Provider:

As you may be aware from recent news reports, elevated levels of lead have been found in the City of Flint's water system.

To help protect the children of Flint from the current lead in water exposure, the Genesee County Health Department and Michigan Department of Health and Human Services are contacting you to assist you in providing guidance to support your families.

Children can be exposed to lead from drinking water in lead pipes, old lead paint, soil, pottery, cosmetics and toys and some home remedies. Adult jobs and hobbies, like auto repair, stained glass and jewelry making, and ammunitions handling can also put children at risk if they touch clothing or play in areas where lead is found.

As a primary care provider, you play a critical role in helping to ensure that children and families exposed to lead receive the care and reassurances they need to manage the potential health impacts of lead poisoning.

Identification. Children suffering from lead poisoning often fail to present outward symptoms. However, early clinical symptoms can include anemia, anorexia, abdominal pain and constipation. Lead is a neuro-toxin, and exposure can result in violent and aggressive behaviors, lead to learning disorders, may cause Attention Deficit Hyperactivity Disorder (ADHD) and has been known to reduce IQ by as many as 5-8 points with levels as low as 10 ug/dL. Lead is metabolized through the gastrointestinal system similar to iron and calcium, with uptake rates depending on the size and weight of the child. The blood half-life of lead is short (approximately 1 month) but the bone half-life can extend into decades.

Due to multiple risk factors facing many residents in the City of Flint (including aging housing conditions and water quality), we recommend that all children under age 6 living in the City of Flint or living in homes that use Flint water, attending school or childcare in Flint, or who spend time with a caregiver in the City of Flint, receive a blood lead test. Blood lead testing should be done through a child's primary care doctor to ensure adequate short-term and long-term follow-up. ***Families should be encouraged to have their children tested immediately either at their doctor's office or the Genesee County Health Department***.

draft

PROVIDER DRAFT LETTER V.2
October 22, 2015
LoRocco Edits,Travis Edits,Attisha Edits, Peeler Edits
Cross checked with parent letter

Management of Blood Lead Levels. The following guidance is provided for management of childhood blood lead levels:

- **BLL < 5 ug/dL**
  - A lead level of less than 5 mcg/dL is not typically cause for concern.
  - Provide education and anticipatory guidance to ensure that lead levels do not rise.
  - Consider retesting in 12 months based on risk factors or concerns.
- **BLL >5 ug/dL**
  - **Children with capillary results of 5 ug/dL and higher must have a confirmatory venous blood draw.**
  - Families should receive anticipatory guidance, nutrition counseling, instruction on safe cleaning techniques and appropriate follow-up care from their primary care provider.
  - In-home services including case management and environmental investigations are available for all children with lead levels greater than 5 ug/dL. Refer patients to the Genesee County Health Department for this service.
  - Children with confirmed venous testing results greater than 5ug/dL within the past 18 months must be retested based on Medicaid policy and AAP guidelines. (See attached "Provider Quick Reference). If a child has not been retested within these timeframes, retesting is recommended as soon as possible.
- **BLL > 44 ug/dL.**
  - **Children with capillary results of 5 ug/dL and higher must have a confirmatory venous blood draw.**
  - Lead levels over 44 ug/dL may require hospitalization. Consult with an expert at the Children's Hospital of Michigan in Detroit for additional guidance.
  - Families should receive anticipatory guidance, nutrition counseling, instruction on safe cleaning techniques and appropriate follow-up care from their primary care provider.
  - In-home services including case management and environmental investigations are available for all children with lead levels greater than 5 ug/dL. Refer patients to the Genesee County Health Department for this service.
  - Children with confirmed venous testing results greater than 5ug/dL within the past 18 months must be retested based on Medicaid policy and AAP guidelines. (See attached "Provider Quick Reference). If a child has not been retested within these timeframes, retesting is recommended as soon as possible.

Reminder: All children covered by Medicaid must be tested at age 1 and 2.

draft

PROVIDER DRAFT LETTER V.2
October 22, 2015
LoRocco Edits,Travis Edits,Attisha Edits, Peeler Edits
Cross checked with parent letter

Follow-up Care. As providers, there are steps you can take to help support your families:

1. Continue to educate families regarding lead risks and preventative steps that they can take to minimize their risks.
2. Encourage your families to use filtered water for drinking, mixing formula and washing dishes. Families can contact 2-1-1 for information on free water filters.
3. Healthy nutrition is critical for lead-exposed children. Make sure your patients are consuming balanced diets high in iron, calcium and Vitamin C. If you have concerns about their nutrition, consider recommending a multivitamin with iron. WIC and SNAP provide assistance to parents and children who need fresh and healthy foods. Contact the Genesee County WIC office at (810) 237-4537 to learn more. In addition, SNAP offers a Double Bucks program that can provide healthy foods for less.
4. Breastfeeding is highly protective and encouraged. However, if the mother's blood lead level rises above 40ug/dL or her level is greater than 20 ug/dL and the baby has a level above 5 ug/dL breastfeeding is not recommended.
5. Because lead is a neuro-toxin, children with lead poisoning need longitudinal follow-up and may require developmental and behavioral health intervention services. Continue monitoring your patients' development at every visit.
6. Consider additional wrap-around and support services that will benefit your patients such as early childhood home visiting programs, early head start and head start. Call 2-1-1 for more information.

Local Resources. Several local resources are available to you and your patients:

- Blood Testing. Patients are encouraged to contact their primary care provider for testing. The Genesee County Health Department also administers lead tests. Patients in need of transportation should contact 2-1-1 for assistance.
- Water Testing. Water testing is free through the City of Flint Water Testing Plant. Patients can call 810-787-6537 to learn more.
- WIC and SNAP provide assistance to parents and children who need fresh and healthy foods. Contact the Genesee County WIC office at (810) 237-4537 to learn more.
- Child Development. If you have concerns about a child's growth, development or learning contact 2-1-1 for a Home Visiting Program in your area.

Websites and contact information.

- Genesee County Health Department Lead Program
  (810) 287-3833

- Michigan Department of Health and Human Services Childhood Lead Poisoning Prevention Program
  (888) 322-4453

- Michigan Department of Health and Human Services Lead Poisoning Prevention Video for Primary Care Providers on Youtube at /www.youtube.com/watch?v=AnkjCW_yGaU&feature=youtu.be.

draft

PROVIDER DRAFT LETTER V.2
October 22, 2015
LoRocco Edits,Travis Edits,Attisha Edits, Peeler Edits
Cross checked with parent letter

- www.michigan.gov/lead
  United States Environmental Protection Agency
  www.epa.gov/lead

- U.S. Centers for Disease Control and Prevention (CDC) Web site
  www.cdc.gov/nceh/lead

draft 3

October 22, 2015

Dear Parent,

To help make sure the children of Flint are safe from lead exposure, the Genesee County Health Department and the Michigan Department of Health and Human Services want to help you understand:

- Where does lead come from?
- What can I do to protect my family?
- Should I get my child tested for lead?
- Where can I find more information about lead?

Where does lead come from?

Lead is a serious health hazard, especially for small children who become lead poisoned when they eat, drink or breathe lead. Elevated levels of lead have been found in the drinking water from lead pipes in the City of Flint. Kids can also be exposed to lead from old lead paint, soil, pottery, cosmetics and toys and some home remedies. Adult jobs and hobbies, like auto repair, stained glass, jewelry making and ammunitions handling can also put children at risk if they touch clothing or play in areas where lead is found.

Should my child get a blood lead test?

Children who live in the City of Flint, live in a home using City of Flint water, or who attend school, childcare or often spend time with a caregiver in the City of Flint should be tested for lead poisoning. *This should be done as soon as possible.*

Where should I go to get a blood lead test for my child?

The best place to get your child's blood lead test is your doctor's office. Your pediatrician will follow up with you on lab tests and provide you with information on what to do next. You can also have a lead test at the Genesee County Health Department. If you need transportation, contact 2-1-1 for help.

Understanding your child's lead test result.

A lead level below 5 means there is little or no lead in your child's blood. Use the tips below to help keep your child safe. Your doctor may suggest retesting your child within the next 12 months to make sure the level does not go up.

Draft 5

A lead level of 5-14 means that your child has had some exposure to lead. Work with your doctor and local health department for further guidance on how to limit your lead exposure. Your doctor may retest your child in 1-3 months to make sure the level does not go up.

Children with very high levels of lead **(over 40)** may require treatment at the hospital.

What Can I Do to Keep My Family Safe?

The following steps should be taken right away to help protect you and your child.

Protecting your family from lead in the water:

- Get your water tested for lead. It's free. Call 810-787-6537 to learn more.
- Use a water filter in your home. Call 2-1-1 for information on free water filters.
- If you do not have a water filter, use bottled water for drinking and mixing formula.
- When cooking or washing the dishes use filtered water. If using unfiltered water, run the water for at least five minutes before you use it.
- Always use cold water when cooking.

Safe cleaning:

Safe Cleaning is Important. Keeping your home clean and safe from lead hazards will help to protect your family.

- Keep children away from lead paint and dust.
- Use wet paper towels to clean up lead dust. Be sure to clean around windows, play areas and floors.
- Wash hands and toys often, using soap and water

Good nutrition:

Some foods will help keep lead from being stored in a child's body. These are foods with a lot of calcium, iron and vitamin C. These foods include:

Calcium Rich Foods	Iron Rich Foods	Foods with Vitamin C
➢ Milk	➢ Beans	➢ Oranges
➢ Cheese	➢ Lean meats like fish and chicken	➢ Orange juice
➢ Yogurt	➢ Whole grain cereals	➢ Grapefruits
➢ Tofu	➢ Peanut butter	➢ Tomatoes
➢ Spinach		➢ Green peppers

Always wash your fruits with filtered water. If you are concerned about your child's diet, talk with your pediatrician who may also recommend a daily multivitamin.

Draft

WIC and SNAP provide assistance to parents and children who need fresh and healthy foods. Contact the **Genesee County WIC office at (810) 237-4537** to learn more. SNAP also offers a Double Bucks program to purchase even more healthy food for no additional costs.

Where can I get more information on lead?

- Genesee County Health Department Lead Program
  (810) 287-3833
- Michigan Department of Health and Human Services Childhood Lead Poisoning Prevention Program
  (888) 322-4453
  www.michigan.gov/lead
- United States Environmental Protection Agency
  www.epa.gov/lead
- U.S. Centers for Disease Control and Prevention (CDC) Web site
  www.cdc.gov/nceh/lead

Draft 5

From: Hollins, Harvey (GOV)
Sent: Friday, October 23, 2015 9:22 AM
To: Michelle Zdrodowski
Cc: connersp@michigan.gov; Muchmore, Dennis (GOV); Walsh, John (GOV); McPhee, Karen (GOV); Murray, David (GOV); Khouri, Nick (TREASURY); Baird, Richard (GOV); Stanton, Terry A. (Treasury); Saxton, Thomas (Treasury); Wurfel, Sara (GOV); Darnell Earley; Kelly Rossman-McKinney
Subject: Re: Final Flint Water OpEd

Darnell,
Well stated!

Best,
Harvey

On Oct 22, 2015, at 6:45 PM, Michelle Zdrodowski <michelle.zdrodowski@detroitk12.org> wrote:

> All,
>
> Attached is the final Flint Water OpEd that was submitted to the Flint Journal, DetNews, Freep, Michigan Chronicle this evening.
>
> Any questions, please advise.
>
> MZ

Michelle A. Zdrodowski

Executive Director of Communications

Detroit Public Schools

3011 W. Grand Boulevard, 14th Floor

Detroit, MI 48202

313.873.3238, office

PPI mobile

<Flint Water Decision Clarification Op-Ed_FINAL.pdf>

From: Eisner, Jennifer (DHHS)
Sent: Friday, October 23, 2015 1:24 PM
To: Wurfel, Sara (GOV); Murray, David (GOV); Brown, Jessica (GOV); Kennedy, Jordan (GOV)
Cc: Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS)
Subject: Robin Erb Interview - Dr. Wells

Hello –

Today Dr. Wells had a phone interview with Robin Erb regarding blood lead levels in Flint. Robin said she's hearing concern from parents who feel like they don't know what to do. Robin heard about the parent letter and wanted to know what it contains, when it will be going out, and what other steps we're taking to provide clear direction to residents. Dr. Wells confirmed that yes, we are working with the local health department to finalize a letter that will be distributed to parents in the next couple of days. Dr. Wells reminded her of the www.michigan.gov/flintwater website that has been up since the first week of October, and said that many of those documents are being distributed through various channels by our partner and provider networks. She also acknowledged that in some areas this can be a difficult to reach population, and so it's important that we think creatively about how to reach them – that we cannot rely solely on the news or internet. Dr. Wells emphasized that our priority population is children 0 – 6 years old, which is why the parent letters will be so beneficial.

Once the letter is ready to go, I told Robin we would share it with her. This is for a Sunday story.

Jennifer (Smith) Eisner
Public Information Officer
Michigan Department of Health and Human Services
517-241-2112

From: Murray, David (GOV)
Sent: Monday, October 26, 2015 6:30 PM
To: Wurfel, Sara (GOV)
Subject: Journal and Darnell's guest column.

http://www.mlive.com/news/flint/index.ssf/2015/10/ex-emergency_manager_says_loca.html#incart_river_home

Interesting that instead of running Darnell's guest column as a guest column, the Journal instead calls it a "statement" and runs two paragraphs of it, instead allowing the others to continue criticizing Earley.

Curious why they would take that approach on this when they run intact guest columns from just about anyone else. Seems to me that after the near-daily attacks, the fair thing would have been to run his full statement in the way it was intended.

He should complain.

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

From: Murray, David (GOV)
Sent: Wednesday, October 28, 2015 8:47 PM
To: Wurfel, Sara (GOV)
Subject: FW: change agent consortium

From: Murray, David (GOV)
Sent: Wednesday, October 28, 2015 8:33 PM
To: 'Ronald Fonger' <RFONGER1@mlive.com>
Subject: RE: change agent consortium

Thanks!

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Wednesday, October 28, 2015 8:30 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: change agent consortium

Dave: Sorry I've been rushing, covering Congressman Kildee's town hall.
I see your point, and will update the post to include it in response.

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Murray, David (GOV) [mailto:MurrayD1@michigan.gov]
Sent: Wednesday, October 28, 2015 8:12 PM
To: Ronald Fonger
Cc: Bryn Mickle; Wurfel, Sara (GOV)
Subject: RE: change agent consortium

Bryn and Ron,

Please help. We're confused by the part of my statement that directly addresses the concerns raised by Rev Bulloch was omitted from the story.

Rev. Bulloch says: "There doesn't seem to be a sense of urgency around responsibility and accountability" for Flint's water emergency, Bullock said.

The omitted part of my quote says: "The task force expects to complete its work within three months. It would be premature to take any action until after the task force submits its report."

Leaving this out appears I was dodging the question. I instead addressed it head on. Can you please add that important detail to the story?

Thanks,

Dave

From: Murray, David (GOV)
Sent: Wednesday, October 28, 2015 3:42 PM
To: 'Ronald Fonger' <RFONGER1@mlive.com>
Subject: RE: change agent consortium

We had a good, respectful meeting with a small group from Flint that included pastors, concerned residents and Councilman Mays.

Gov. Snyder has assembled a third-party task force that includes respected experts in public health, water management and environmental protection for an unbiased review of all actions of the city, state and federal governments regarding water use and testing in Flint.

That task force is expected to look at what occurred as well as make recommendations for what should happen moving forward because we believe that Flint residents need clean, safe water. The task force expects to complete its work within three months. It would be premature to take any action until after the task force submits its report.

Meanwhile, the Department of Environmental Quality and the Department of Health and Human Services continue to work with city leaders, educators and residents to continue testing and carrying out other aspects of the governor's action plan.

Dave

rom: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Wednesday, October 28, 2015 3:14 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: change agent consortium

Dave: I just spoke to Rev. Bullock, who said he spoke with you as his group called for the governor to fire Dan Wyant today.
We also have some video from our Lansing hub.
The pastor indicated the group raised questions with you about the task force on Flint water and said he left the conversation feeling, "There doesn't seem to be a sense of urgency around responsibility and accountability."
Would you want to comment on the group's request and/or your conversation with them today.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Wednesday, November 04, 2015 6:37 PM
Subject: MEDIA ADVISORY: City Administrator Press Briefing

FOR PLANNING PURPOSES ONLY - NOT FOR DISTRIBUTION

MEDIA ADVISORY: City Administrator Press Briefing

WHEN: Thursday, November 5, 2015 at 10:30am

WHERE: Mayor's Office Conference Room, Flint City Hall

Details: Topics will include, but are not limited to, updates on water related matters.

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI (Cell)
jlorenz@cityofflint.com

From: Murray, David (GOV)
Sent: Friday, November 06, 2015 4:57 PM
To: Wurfel, Brad (DEQ)
Cc: Wurfel, Sara (GOV)
Subject: Re: reporter inquiry

I think we might be best served by saying that the task force will review all aspects of the Flint water infrastructure challenges, that we understand people are concerned and we anticipate a report after a thorough review and look for recommendations moving forward.

Sent from my iPhone

On Nov 6, 2015, at 4:46 PM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:

Sent from my iPhone

Begin forwarded message:

From: Ronald Fonger <RFONGER1@mlive.com>
Date: November 6, 2015 at 3:39:33 PM EST
To: "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
Subject: RE: reporter inquiry

Specific questions: Is the DEQ aware that nearly 90 percent of Flint's water samples submitted from the first half of this year are not Tier 1 test sites?
City officials have said they distributed water bottles in collecting samples without regard for whether homes had lead service lines. Is that an acceptable collection procedure?
Is the state developing any guidelines for Flint and/or other communities about collection methods to insure the homes at the highest risk of high lead levels are the ones tested in the future?
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Brad (DEQ) [mailto:WurfelB@michigan.gov]
Sent: Friday, November 06, 2015 3:16 PM

To: Ronald Fonger
Subject: reporter inquiry

Ron, thanks for the phone call regarding Flint's sample submissions. if you've got a specific question, you're welcome to ask. But this is an ongoing issue, and I don't think we'll be able to offer much comment at this time.
b

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713
PPI cell

From: Sampson, Jeremy (TREASURY)
Sent: Sunday, November 08, 2015 6:45 PM
To: Wurfel, Sara (GOV)
Cc: Stanton, Terry A. (Treasury)
Subject: Re: Treasury

It's my understanding that you have seen all reports. We can circle back tomorrow if you would like.

Terry should be back as well.

Sent from my iPhone

On Nov 8, 2015, at 3:56 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

> Many thanks, Jeremy. Much appreciated.
>
> To be clear then, there WERE other reports and documents since that 2013 date? I thought there had been at least two, but couldn't recall exact timing or access the reports. We'll want to make sure we have handy if so.
>
> Think it was great Matt D talked to Nick about that. I think the story overall turned out well and covered potential pension without overhyping or scaring.
>
> ---
>
> **From:** Sampson, Jeremy (TREASURY)
> **Sent:** Friday, November 06, 2015 4:47 PM
> **To:** Wurfel, Sara (GOV) <Wurfels@michigan.gov>
> **Cc:** Stanton, Terry A. (Treasury) <StantonT@michigan.gov>
> **Subject:** Treasury
> **Importance:** High
>
> Sara-
>
> Wanted to update you on a couple of potential stories that you could see over the weekend.
>
> First Nancy Kaffer of the Freep is writing a column for Sunday to do with Flint and the choice of KWA over DWSD. She had FOIA'd a doc from MEDQ that had a 2013 report from Andy Dillion that says that KWA is a risky proposition and that DWSD was a better option. I let her know that the report was just a starting point in the process and as more information became available a joint decision was made by the EM, council and other key city leaders.

Not Responsive

> Let me know if you have any questions.
>
> Thanks.

Jeremy Sampson
Communications Specialist
Department of Treasury
Richard H. Austin Building
430 West Allegan Street
Lansing, MI 48922
Office: 517-241-2623
Cell PPI
sampsonj@michigan.gov

From: Wurfel, Brad (DEQ)
Sent: Tuesday, November 10, 2015 8:03 AM
To: Klemans, Diana (DEQ)
Cc: Walterhouse, Mike (DEQ); Tommasulo, Karen (DEQ); Feuerstein, Heather (DEQ); Sygo, Jim (DEQ); Creal, William (DEQ); Fish, Kim (DEQ); Ostlund, Peter (DEQ); Smith, Laura (DEQ); Vanportfleet, Jennifer (DEQ); Kohlhepp, Gary (DEQ); Alexander, Michael (DEQ); Cranson, Jeff (MDOT); Wurfel, Sara (GOV); Murray, David (GOV)
Subject: Re: NPR Interview-Road Salt

I actually just was putting it out there so everyone can know where the story is trying to head. Thanks!

Sent from my iPhone

On Nov 9, 2015, at 5:00 PM, Klemans, Diana (DEQ) <KLEMANSD@michigan.gov> wrote:

> Hi Brad,
>
> Our staff are not experts on corrosion or on the chloride concentrations that could be a concern related to corrosion. Perhaps we could provide any surface water information we have to someone in the drinking water program for their analysis. If that will work, please let us know who we should work with. We would be happy to provide assistance.
>
> Dina
>
> ---
> Dina Klemans
> Chief, Surface Water Assessment Section
> Water Resources Division
> Michigan Department of Environmental Quality
> 517-284-5510
> klemansd@michigan.gov
>
> **From:** Wurfel, Brad (DEQ)
> **Sent:** Monday, November 09, 2015 4:56 PM
> **To:** Walterhouse, Mike (DEQ); Tommasulo, Karen (DEQ); Feuerstein, Heather (DEQ); Sygo, Jim (DEQ); Creal, William (DEQ); Fish, Kim (DEQ); Ostlund, Peter (DEQ); Smith, Laura (DEQ); Vanportfleet, Jennifer (DEQ); Klemans, Diana (DEQ); Kohlhepp, Gary (DEQ); Alexander, Michael (DEQ)
> **Cc:** Cranson, Jeff (MDOT); Wurfel, Sara (GOV); Murray, David (GOV)
> **Subject:** RE: NPR Interview-Road Salt
>
> Thanks, Mike. Reporter also wanted to know if there was a way to link this story to Flint -- any chance the river water there may be more corrosive because of a salt issue.
> JEFF, heads up.
> b
>
> **From:** Walterhouse, Mike (DEQ)
> **Sent:** Monday, November 09, 2015 3:47 PM
> **To:** Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ); Feuerstein, Heather (DEQ); Sygo, Jim (DEQ); Creal,

William (DEQ); Fish, Kim (DEQ); Ostlund, Peter (DEQ); Smith, Laura (DEQ); Vanportfleet, Jennifer (DEQ); Klemans, Diana (DEQ); Kohlhepp, Gary (DEQ); Alexander, Michael (DEQ)
Subject: NPR Interview-Road Salt

Today I was interviewed by Rebecca Thiele of public radio WKAR-Kalamazoo.
The interview was prompted by the findings of Western Michigan University, Carla Koretsky, regarding the impact of road salt on a small deep kettle lake within the City of Kalamazoo. We are funding a CMI monitoring grant for Dr. Koretsky to conduct additional assessment of several urban lakes and the associated watersheds. I provided the reporter with the 2 attached reports and the link for a another report prepared by the USGS (http://pubs.usgs.gov/sir/2011/5233/). These reports all have sections devoted to chlorides and correlate high chloride concentrations in lakes and streams with urban land use.
Questions-roughly & answers- briefly-no particular order

1. From the 2007 NLA report, Mi lakes have higher conductivities and chloride concentrations than lakes nationally and within the upper Midwest ecoregion. Why? Speculated that compared to the rest of nation, particularly compared to the southern states, we have more sources including road salt. Compared to other states in the upper Midwest ecoregion we have more lakes in urbanized watersheds.
2. Will monitoring be conducted at other Kettle Lakes with urbanized watersheds to document the extent of the problem? Acknowledged that elevated chloride levels have been documented in urbanized areas of Michigan and concentrations in Woods Lake in Kalamazoo are problematic which is why we are funding additional work to document the extent of the problem and sources. We will routinely continue to monitor Michigan's resources for chlorides but the site specific nature of the problem precludes specific sampling for the issue. We do not have a Water Quality Standard for chloride but we have not identified toxicity issues where elevated concentrations have been found.
3. Will construction of roadside retention ditches solve the problem? Explained that best management practices for the typical NPS pollutants our agency addresses may not be appropriate for salt. I made sure the reporter had a contact in MDOT.

Air date for the story is unknown.

Mike Walterhouse, Environmental Quality Specialist
Lake Michigan Unit
Surface Water Assessment Section
Water Resources Division, MDEQ
517-284-5548

From: Wurfel, Brad (DEQ)
Sent: Tuesday, November 10, 2015 1:05 PM
To: Stephen Carmody; Wyant, Dan (DEQ); Pallone, Maggie (DEQ)
Subject: RE: FW: EPA Region 5 to Audit State of Michigan's Drinking Water Program

DEQ welcomes this announcement from EPA, and we've already signaled to them that they can count on our full cooperation and transparency.
We've appreciated the federal government's support on the situation in Flint -- including its announcement last week that the Lead and Copper rule speaks ambiguously on the corrosion control issue. Nobody wants to see a situation like Flint, and we look forward in working with our federal partners going forward because we share the goal of making sure the Flint situation is not repeated -- in Michigan, or anywhere else.

b

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713
PPI bell

From: Stephen Carmody [mailto:sgcarmod@umich.edu]
Sent: Tuesday, November 10, 2015 12:36 PM
To: Wurfel, Brad (DEQ)
Subject: Fwd: FW: EPA Region 5 to Audit State of Michigan's Drinking Water Program

Brad,

Any official reaction to this announcement?

Steve Carmody
Michigan Radio

United States Environmental Protection Agency | Region 5 77 West Jackson Blvd. Chicago, Illinois 60604 | Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin

EPA Environmental NEWS RELEASE

EPA Region 5 to Audit State of Michigan's Drinking Water Program

Contact Information: Anne Rowan, rowan.anne@epa.gov 312-353-9391

For Immediate Release No. 15-OPA167

CHICAGO (November 10, 2015) -- U.S. Environmental Protection Agency Region 5 Administrator Susan Hedman today announced that the agency will conduct an audit of the Michigan Department of Environmental Quality (MDEQ) drinking water program. Region 5 will examine MDEQ's implementation of the Safe Drinking Water Act and related rules on lead and copper, total coliform, nitrates and ground water.

"EPA is conducting this audit to ensure that MDEQ maintains reliable drinking water supplies that meet all of the requirements of the Safe Drinking Water Act," Hedman said. "This comprehensive audit will provide Flint residents and the people of Michigan with more information about MDEQ oversight of public water supplies and will identify actions that may be needed to strengthen the Michigan drinking water program."

During the audit, EPA Region 5 staff will go to MDEQ offices to review state files on public water system compliance with the Safe Drinking Water Act. EPA will also review MDEQ oversight of public water systems. The audit will consist of a full programmatic review that supplements the reviews of the Michigan drinking water program that EPA conducts each year.

The on-site audit will take several months. As soon as it is complete, EPA will prepare an audit report and make the report available to the public.

###

From: Wurfel, Brad (DEQ)
Sent: Monday, November 16, 2015 3:10 PM
To: Ronald Fonger
Cc: Murray, David (GOV); Wurfel, Sara (GOV); Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS); Eisner, Jennifer (DHHS)
Subject: RE: nrdc/aclu lawsuit

Ron, here's the EPA link to its page on requirements for schools. I excerpted and bolded the important language. Schools that are part of a municipal supply don't have separate requirements. Those that have their own building water supply are already subject to all the SDWA requirements.

If there's a requirement for education and outreach, perhaps DHHS would know. I've included them here to loop them in.

Our folks are still looking into this, but the day is growing late. If I come up with something further, I'll share it along.

http://water.epa.gov/infrastructure/drinkingwater/schools/upload/2006_1_11_schools_lead_sqrg_lcr_schools.pdf

*"Schools and child care facilities **that have their own water supply** **and are considered non-transient, non-community water systems (NTNCWSs)** (emphasis added) are subject to the Lead and Copper Rule (LCR) requirements.*

The LCR was developed to protect public health by minimizing lead and copper levels in drinking water. The most common source of lead and copper in drinking water is corrosion of plumbing…"

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, November 16, 2015 12:23 PM
To: Wurfel, Brad (DEQ)
Subject: nrdc/aclu lawsuit

Brad:
I've asked Dave Murray for a comment on the notice of intent to sue that was filed this morning by the ACLU/NRDC, naming officials from the state and city as potential defendants.
Separate from the story about the potential legal action, I'm following up on an allegation that's specific to the DEQ on page 14.
The notice says the SDWA requires each state to establish a program "to assist" schools and day care centers in "testing for, and remedying, lead contamination in drinking water."
The notice says test results must be made available at schools, with notification to parents and teachers.
It says Michigan does not maintain such a program, which is in violation of SDWA's schools provision.
Can you or someone from the department talk to me about this claim?
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Stanton, Terry A. (Treasury)
Sent: Thursday, November 19, 2015 5:39 PM
To: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: Fwd: Flint water

Feel free to call me on this tonight. Please see my earlier email.

Begin forwarded message:

> **From:** "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
> **Date:** November 19, 2015 at 5:15:21 PM EST
> **To:** "Agen, Jarrod (GOV)" <AgenJ@michigan.gov>, "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>, "Murray, David (GOV)" <MurrayD1@michigan.gov>, "Stanton, Terry A. (Treasury)" <StantonT@michigan.gov>
> **Subject: FW: Flint water**
>
> Egan is grilling Dillon. Andy doesn't want to return his call without one of you on the phone.
>
> **From:** Andy Dillon [mailto:adillon@conwaymackenzie.com]
> **Sent:** Thursday, November 19, 2015 2:04 PM
> **To:** Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>
> **Subject:** Fwd: Flint water
>
> I am not anxious to respond to him but my experience of ignoring him hasn't been very productive.
>
> He is focused in on a relevant question.
>
> **Andy Dillon**
> Conway MacKenzie Inc.
> 401 S. Old Woodward Avenue, Suite 340, Birmingham, MI 48009
> 248.952.8868 (office) | PPI (cell) | 248.433.3143 (fax)
> adillon@conwaymackenzie.com
>
> ---------- Forwarded message ----------
> From: **Egan, Paul** <pegan@freepress.com>
> Date: Thu, Nov 19, 2015 at 1:48 PM
> Subject: Flint water
> To: "ADillon@ConwayMacKenzie.com" <ADillon@conwaymackenzie.com>

Hi Andy: Why did the state and city opt to go with KWA for Flint water supply when the study you commissioned from Tucker, Young, Jackson, Tull found that going with KWA would be more costly than staying with DWSD? (Here is excerpt from p. 17):

"Based on the analysis, it is prudent to assume the KWA water supply option costs would be somewhere

between the KWA-1 and KWA-2 options. Therefore, the analysis indicates that the two DWSD options

of supplying 8 MGD on a maximum day and up to 8 MGD on average are the least cost options for Flint.

These options allow Flint to maximize the use of existing assets; the City of Flint's (the Flint WTP) and

DWSD's (the existing 72-inch main)."

How would you describe your role in the chain of decisions that led to Flint drawing its water supply from the Flint River?

The Flint City Council opted to go with the KWA on the evening of March 25, 2013. Your schedule shows you had a 5 p.m. phone conversation at 5 p.m. that day with Dennis Muchmore "regarding Flint Water Supply alternatives."

The next day, March 26, 2013, your schedule shows a 9 a.m. meeting at Treasury "regarding Flint water, a 1:30 p.m. phone call with Dan Wyant "regarding Flint/KWA," and a w p.m. meeting in Lansing with Flint Mayor Dayne Walling?

What do you recall about these conversations/meetings? Did Muchmore sign off on the switch to KWA on behalf of the governor?

Thanks, Paul Egan

Detroit Free Press

Cell PPI

From: Eisner, Jennifer (DHHS)
Sent: Friday, November 20, 2015 10:22 AM
To: Murray, David (GOV); Wurfel, Sara (GOV); Minicuci, Angela (DHHS); Lasher, Geralyn (DHHS)
Subject: RE: Flint blood level data

No problem. We're holding until Monday.

Jennifer Eisner
Public Information Officer
Michigan Department of Health and Human Services
Office: 517-241-2112 or EisnerJ@michigan.gov
Cell: PPI

From: Murray, David (GOV)
Sent: Friday, November 20, 2015 10:02 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>; Lasher, Geralyn (DHHS) <lasherg@michigan.gov>
Subject: RE: Flint blood level data

Jim Redford said legal team also needs to review the release and supporting documents.

From: Wurfel, Sara (GOV)
Sent: Friday, November 20, 2015 10:01 AM
To: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Re: Flint blood level data

Talked with Gov about this briefly. He def indicated preference waiting until early next week to ensure best messaging and outreach.

They took this long - let's get this right.

Sent from my iPhone

On Nov 20, 2015, at 9:41 AM, Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov> wrote:

> We're talking to the director to and will give you a call soon.
>
> Jennifer
>
> ---
>
> **From:** Murray, David (GOV)
> **Sent:** Friday, November 20, 2015 9:34:35 AM
> **To:** Eisner, Jennifer (DHHS); Wurfel, Sara (GOV); Brown, Jessica (GOV); Kennedy, Jordan (GOV); Heaton, Anna (GOV); Biehl, Laura (GOV); Agen, Jarrod (GOV)
> **Cc:** Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ); Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS); Hertel, Elizabeth (DHHS)
> **Subject:** RE: Flint blood level data

I don't think this should happen today at all. Governor is at an important event in Southeast Michigan this morning, and I think we need some direction from him and others on this issue.

From: Eisner, Jennifer (DHHS)
Sent: Friday, November 20, 2015 9:30 AM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>; Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>; Heaton, Anna (GOV) <HeatonA@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>
Cc: Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Tommasulo, Karen (DEQ) <TommasuloK@michigan.gov>; Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>; Hertel, Elizabeth (DHHS) <HertelE@michigan.gov>
Subject: Re: Flint blood level data

Thanks Dave. We're talking with population health now and will send around an updated version as soon as possible.

Will be in touch as soon re: timeline but the notifications are not happening right at 9:30.

Best,
Jennifer

From: Murray, David (GOV)
Sent: Thursday, November 19, 2015 6:24:48 PM
To: Eisner, Jennifer (DHHS); Wurfel, Sara (GOV); Brown, Jessica (GOV); Kennedy, Jordan (GOV); Heaton, Anna (GOV); Biehl, Laura (GOV); Agen, Jarrod (GOV)
Cc: Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ); Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS)
Subject: Flint blood level data

Good evening, MDHHS friends,

Here are suggested changes to the press release. I think it's vitally important to have our "people first" approach, and be very up front about the results. I also think it's important to show up high what we will do with this data. Please consider the changes. I also think it's worth a conversation about whether we want to release this on a Friday morning. This is a challenging situation to be sure, but I think these results are fairly encouraging considering some of the heated rhetoric on this issue.

Thank you,

Dave

FOR IMMEDIATE RELEASE CONTACT: Jennifer Eisner
DRAFT
(517) 241-2112

MDHHS releases October data outlining blood lead levels in Flint

Results show 24 of 963 people tested had elevated levels

LANSING, Mich. – Blood lead level testing results released today revealed that 24 of 963 adults and children tested in Flint in October had elevated levels, according to the Michigan Department of Health and Human Services.

MDHHS is working closely with the Genesee County Health Department to reach out to families testing with higher levels and help them reduce their exposure to lead sources.

Information was gathered from tests administered citywide to 963 children and adults between October 1 and October 30. Eighteen people age 17 or younger had elevated blood lead levels. Six adults over the age 18 were identified with elevated blood lead levels.

The report is intended to inform residents about blood lead level testing efforts in Flint and provide cumulative total numbers.

"Our goal is to help families reduce their exposure to lead sources," said Dr. Eden Wells, chief medical executive with the MDHHS. "We have made progress in testing and identifying those with elevated blood lead levels, and the department will continue to work closely with county health department to reach these families. We will update these numbers on a regular basis and remain diligent in our ongoing outreach and education."

The data in the report include the total number of tests conducted and the total number of elevated blood lead levels greater than 5 micrograms per deciliter, and captures both capillary and venous blood tests. People who have had multiple tests are counted only once. The full report is posted online at www.michigan.gov/flintwater and will be updated as more data becomes available.

The testing is part of the state's action plan to address health concerns related to Flint's water infrastructure.

Last month, MDHHS collaborated with the county health department and local partners to distribute educational resources and informational letter to Flint parents regarding lead testing. GCHD nursing staff are conducting direct outreach to families when an elevated blood lead level has been detected, serving as an important resources by addressing questions and concerns, providing information, and meeting them in their home environment.

MDHHS continues to provide free water filters and replacement cartridges to Flint residents at four locations including the MDHHS Flint offices and the Genesee County Community Action Resource Department. For a full list of locations and hours of distribution, visit www.michigan.gov/flintwater.

To help residents properly install water filters, and to demonstrate how to replace the original when it expires, MDHHS has created an instructional on the MDHHS YouTube channel. For additional updates on Flint water including updates on blood lead levels and testing results, visit www.michigan.gov/flintwater.

# # #

From: Eisner, Jennifer (DHHS)
Sent: Thursday, November 19, 2015 3:07 PM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>; Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>
Cc: Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Tommasulo, Karen (DEQ) <TommasuloK@michigan.gov>; Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>
Subject: Flint EBL Data

Good afternoon:

Attached, please find the blood lead level test results for Flint zip codes 48501-48507, as well as a corresponding press release and talking points. With your approval and edits, we are planning to notify external partners tomorrow at 9:30 a.m. then post the report on www.michigan.gov/flintwater and issue the press release at 10 a.m.

Please let us know if you have any questions or concerns.

Thanks and best,

Jennifer Eisner
Public Information Officer
Michigan Department of Health and Human Services
Office: 517-241-2112 or EisnerJ@michigan.gov
Cell: PPI

From: Murray, David (GOV)
Sent: Friday, November 20, 2015 2:45 PM
To: Wurfel, Sara (GOV)
Subject: Both versions
Attachments: Dillon 1.docx; Dillon 2.docx

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

I am providing my comments below based on my memory of events that transpired over two years ago. I have not reviewed the reports, emails, memos relating to these events and my recollections would likely change after refreshing my memory with the relevant documents.

First, it is important to understand Flint's decision to join the KWA was a separate and distinct decision from using the Flint River. After we signed off on Flint joining the KWA, Flint was to negotiate with the DWSD regarding using their water during the construction of the KWA. If they were unable to negotiate a fair deal, I recall their back up plan was to use the Flint River. I don't recall Treasury being involved in the negotiations with DWSD or being advised that the negotiations broke down and Flint switched to the Flint River.

Treasury held two and possibly three lengthy meetings to go over the Tucker Young report with the DEQ. The DEQ didn't agree with TY's report and identified several flaws in their assumptions which TY was unable to refute. The reason for the multiple meetings was to make sure our siding with the DEQ over TY was the correct decision. The reports were dependent upon engineering/construction related issues which were not the forte of Treasury so we relied on the advice and counsel of both TY and DEQ where the appropriate expertise resided to assist us in making this decision.

TY's largest customer was the DWSD and DWSD did not like the KWA project. We didn't assume that factored into the TY findings but it was on our radar. We didn't believe the DEQ had any agenda so their conclusion together with TY's reliance on some flawed assumptions, led us to side w/ the DEQ's opinion. The flawed assumptions related as best I can recall on redundancy requirements that TY assumed the DEQ would demand which the DEQ said would not be required. Once eliminated, the TY reports findings were undermined.

I recall Treasury needed to approve the EM's decision to join the KWA (again not to approve Flint using the Flint River).

I recall we were getting a lot of pressure from County and City officials to approve Flint joining the KWA. The decision had a deadline because whether Flint joined the project affected the size of the pipe that would bring in the water and the KWA needed to know if Flint would participate to purchase the correct pipe size.

I recall advising the Governor's office of these events because my initial instincts were not to authorize Flint joining the KWA for two reasons: 1) Flint was not in a financial position to assume any financial risk re: the project; and 2) Detroit was also in financial distress and I didn't think DWSD losing approximately 5% of their revenues was a good thing for them.

Because I thought Treasury would go against local sentiment that heavily favored KWA, I thought the Governor's office should be aware of the potential political fallout.

I also wanted the Governor's office involved because I didn't think Treasury had the expertise to make this decision and as such we would need help from the DEQ and I wanted them to support the collaboration between the two departments.

I never received any pressure from the Governor's office to decide one way or the other on approving the KWA. We followed the process described above and made a decision based upon what we thought was in the best interests of Flint. The decision to support KWA was influenced by our conclusion that there was no financial risk to Flint for the project and the DEQ's

conclusion that it was more economical for Flint to join KWA (again a separate and distinct decision from using the Flint River). The fact this conclusion was what the local officials wanted was a bonus.

I don't recall specific conversations on the dates and times you referenced. I do know there were many discussions regarding this topic between Treasury, DEQ and the Governor's office and the facts and circumstances re: KWA led to a clear consensus that the state should not block Flint's desire to join the KWA.

I am providing my comments below based on my memory of events that transpired over two years ago. I have not reviewed the reports, emails, memos relating to these events and my recollections would likely change after refreshing my memory with the relevant documents.

First, it is important to understand Flint's decision to join the KWA was a separate and distinct decision from using the Flint River. After we signed off on Flint joining the KWA, Flint was to negotiate with the DWSD regarding using their water during the construction of the KWA. If they were unable to negotiate a fair deal, I recall their back up plan was to use the Flint River. I don't recall Treasury being involved in the negotiations with DWSD or being advised that the negotiations broke down and Flint switched to the Flint River.

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Because I thought Treasury would go against local sentiment that heavily favored KWA, I thought the Governor's office should be aware of the potential political fallout.

I also wanted the Governor's office involved because I didn't think Treasury had the expertise to make this decision and as such we would need help from the DEQ and I wanted them to support the collaboration between the two departments.

I never received any pressure from the Governor's office to decide one way or the other on approving the KWA. We followed the process described above and made a decision based upon what we thought was in the best interests of Flint. The decision to support KWA was influenced by our conclusion that there was no financial risk to Flint for the project and the DEQ's

conclusion that it was more economical for Flint to join KWA (again a separate and distinct decision from using the Flint River). The fact this conclusion was what the local officials wanted was a bonus.

I don't recall specific conversations on the dates and times you referenced. I do know there were many discussions regarding this topic between Treasury, DEQ and the Governor's office and the facts and circumstances re: KWA led to a clear consensus that the state should not block Flint's desire to join the KWA.

From: Murray, David (GOV)
Sent: Friday, November 20, 2015 3:13 PM
To: Wurfel, Sara (GOV)
Subject: Andy

I am providing my comments below based on my memory of events that transpired over two years ago. I have not reviewed the reports, emails, memos relating to these events and my recollections would likely change after refreshing my memory with the relevant documents.

First, it is important to understand Flint's decision to join the KWA was a separate and distinct decision from using the Flint River. After we signed off on Flint joining the KWA, Flint was to negotiate with the DWSD regarding using their water during the construction of the KWA. If they were unable to negotiate a fair deal, I recall their back up plan was to use the Flint River. I don't recall Treasury being involved in the negotiations with DWSD or being advised that the negotiations broke down and Flint switched to the Flint River.

Treasury held two and possibly three lengthy meetings to go over the Tucker Young report with the Flint leaders, KWA consultants and DEQ representatives to discuss concerns about the report.

I never received any pressure from the Governor's office to decide one way or the other on approving the KWA. We followed the process described above and made a decision based upon what we thought was in the best interests of Flint. The decision to support KWA was influenced by our conclusion that there was no financial risk to Flint for the project and the DEQ's conclusion that it was more economical for Flint to join KWA (again a separate and distinct decision from using the Flint River). The fact is that this conclusion was what the local officials wanted.

I don't recall specific conversations on the dates and times you referenced. I do know there were many discussions regarding this topic between Treasury, DEQ and the Governor's office and the facts and circumstances re: KWA led to a clear consensus that the state should not block Flint's desire to join the KWA.

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

From: Workman, Wayne (TREASURY)
Sent: Monday, April 27, 2015 6:20 PM
To: Muchmore, Dennis (GOV)
Cc: Saxton, Thomas (Treasury); Clement, Elizabeth (GOV); Wurfel, Sara (GOV); Baird, Richard (GOV); Gelisse, Ashley (TREASURY); Storberg, Ann Marie (TREASURY); Koryzno, Edward (Treasury); Headen, Frederick (Treasury)
Subject: Re: scanned doc

It cannot help anything

Sent from my iPhone

On Apr 27, 2015, at 5:44 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> Would someone please explain to me how cutting off water to 10,000 people does anything but bring the wrath of God down on all of us?
>
> Sent from my iPhone
>
> On Apr 27, 2015, at 10:29 AM, Workman, Wayne (TREASURY) <WorkmanW@michigan.gov> wrote:
>
> > We received this letter Friday the 24th. Water shut-off threat continues.
> >
> > **From:** Dempkowski, Angela (Treasury)
> > **Sent:** Monday, April 27, 2015 10:26 AM
> > **To:** Workman, Wayne (TREASURY)
> > **Subject:** scanned doc
> >
> >
> > <image001.jpg>
> > Angela Dempkowski | Senior Executive Management Assistant/Treasury
> > State of Michigan | 430 W. Allegan Street, 1st Floor | Lansing, MI 48922
> > (517) 373-4415 | (517) 373-0633 (fax)
> > dempkowskia@michigan.gov
> >
> >
> > Think Green! Don't print this e-mail unless you need to.
> >
> > *CONFIDENTIALITY NOTICE: This e-mail, and any attachments, is for the sole use of the intended recipient(s) and may contain information that is confidential and protected from disclosure under the law. Any unauthorized review, use, disclosure, or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail, and delete/destroy all copies of the original message and attachments.*
> > *Thank you*
> >
> > <DWSD-HP letter.pdf>

From: Minicuci, Angela (DHHS)
Sent: Thursday, October 01, 2015 5:19 PM
To: Tommasulo, Karen (DEQ); Lasher, Geralyn (DHHS); Eisner, Jennifer (DHHS)
Cc: Wurfel, Brad (DEQ); Wurfel, Sara (GOV); Murray, David (GOV); Pallone, Maggie (DEQ)
Subject: RE: run of show
Attachments: 151001 News release DHHS edits.docx

Our edits are attached. Thank you!

Angela

From: Tommasulo, Karen (DEQ)
Sent: Thursday, October 01, 2015 4:42 PM
To: Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>; Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>
Cc: Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Pallone, Maggie (DEQ) <PalloneM@michigan.gov>
Subject: run of show

Here's the run of show as it stands. Did you want to add Nick's comments or change anything else on it? I'm not sure how much he works from prepared remarks.

Karen Tommasulo
Public Information Officer
Michigan Department of Environmental Quality
517-284-6716 | 517-599-5733
tommasulok@michigan.gov

Oct. 2, 2015

For More Information:
Sara Wurfel or Dave Murray
Brad Wurfel, 517-284-6713, wurfelb@michigan.gov
~~Angela Minicuci~~Jennifer Eisner, 517-230-9804, eisnerj@michigan.gov

Michigan leaders announce action plan for Flint drinking water

Local, state and federal leaders today announced a comprehensive action plan for drinking water in Flint, designed to address both the short- and long-term needs of residents.

Gov. Rick Snyder, the Michigan Departments of Environmental Quality, and Health and Human Services, the Environmental Protection Agency, and the City of Flint released an~~The~~ action plan focuses on increasing water testing, offering additional precautions for families with lead plumbing in their homes, and providing long-term solutions to address the city's water infrastructure.

"We are deeply concerned by the lead results we are seeing in parts of Flint," Snyder said. "Although we know the water leaving Flint's drinking water system is safe to drink, some families with lead plumbing on their property experience higher levels of lead in the water that comes out of their faucets. We are concerned for those families, and we created this action plan to address their immediate needs as well as the long-term needs of all Flint residents."

The city and the state also are working together to gather more data to ensure the water that leaves the treatment plant as well as the water that arrives in Flint homes is safe for all residents. The plan includes:

- Immediately test Flint public schools to ensure that drinking water is safe. Testing also will be available at no cost to any other school in Flint.

- Expand health exposure testing of individual residences.
- Offer water testing at no cost to Flint residents to assure water is safe.
- Begin optimizing corrosion controls in the Flint drinking water system.
- Convene a "Safe Drinking Water Technical Advisory Committee" to ensure the best technology, practices and science are being utilized, and add an expert from the EPA's Office of Research and Development to the group.
- Accelerate water system improvements to address replacement of lead service lines.
- Expedite completion of Karegnondi Water Authority.
- Gov. Rick Snyder names Dr. Eden Wells as the Flint Drinking Water Public Health Advisor.
- Provide water filters to residents of Flint.
- Expand a comprehensive lead education initiative.

In addition to the action plan, zip code-level data does show that there has been an increase in elevated childhood blood lead levels in specific communities. Initial analysis of MDHHS data found that blood lead levels of children in Flint have followed an expected seasonal trend. While this analysis for Flint as a whole remains true, after a comprehensive and detailed review down to the zip code level, MDHHS data state analysis is consistent with that presented by Hurley Children's Hospital.

"While we cannot conclusively say that the water source change is the sole cause of the increase, this analysis supports our efforts as we take active steps to reduce all potential lead exposures in Flint," said MDHHS Director Nick Lyon. "As part of this, we are working closely with our public and private partners to provide Flint residents with water filters and educate families about the steps they can take to reduce all lead exposures in their home."

Local, state and federal leaders announced the plan at a press conference today at Kettering University's Innovation Center in Flint. Participants included:

- Harvey Hollins, Director of Snyder's Office of Urban Initiatives
- Dan Wyant, Director of the Michigan Department of Environmental Quality
- Nick Lyon, Director for the Michigan Department of Health and Human Services
- Dr. Eden Wells, Flint Drinking Water Public Health Adviser

- Dayne Walling, Mayor of Flint

"This action plan offers concrete steps we will take in a local, state and federal partnership to ensure all Flint residents have safe water to drink," Wyant said. "The DEQ will work closely with the city to gather further data to ensure the water that leaves Flint's system as well as the water that arrives in Flint homes is safe to drink."

To have your water tested, call 810-787-6537 and press 1, or email flintwater@cityofflint.com. For more information, visit www.michigan.gov/flintwater.

###

Formatted: Centered

From: Kennedy, Jordan (GOV)
Sent: Wednesday, October 07, 2015 3:44 PM
To: Wurfel, Sara (GOV)
Subject: RE: MA for review

It's on there as an editor's note.

Jordan Kennedy
Communications Representative
Executive Office of Governor Rick Snyder
Phone: 517.335.6397

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 3:40 PM
To: Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>
Subject: RE: MA for review

You need to add in the credentialing information yet. thx

From: Kennedy, Jordan (GOV)
Sent: Wednesday, October 07, 2015 3:40 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Heaton, Anna (GOV) <HeatonA@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>
Cc: Paciorek, Josh (GOV) <Paciorekj@michigan.gov>
Subject: RE: MA for review

I updated the address below.

Wednesday, Oct. 7, 2015
Contact: Sara Wurfel or Dave Murray
Office: 517-335-6397

Editor's note: Media must present valid press credentials on site.

Thursday, Oct. 8 at 10 a.m.
Gov. Rick Snyder will make an announcement regarding the Flint water system. He will be joined by Flint Mayor Dayne Walling, Director of Environmental Quality, Dan Wyant, Director of the Department of Health and Human Services, Nick Lyon, Dr. Eden Wells, Chief Medical Executive at DHHS, and Ridgway White of the Charles Stewart Mott Foundation.

A livestream option is also available at www.michigan.gov/snyderlive. If you wish to embed the event please visit http://new.livestream.com/snyderlive for more information.

Location:
Commerce Center/Mott Foundation Building - Conference Center, Ground Floor
503 S. Saginaw St.
Flint, MI

Thursday, Oct. 8 at 7 p.m.
Snyder will offer remarks at the Celebration of Life Gala supporting Magen David Adom (Israel's national 911 and emergency services).

Location:
Adat Shalom Synagogue
29901 Middlebelt Rd.
Farmington Hills, MI

#####

Jordan Kennedy
Communications Representative
Executive Office of Governor Rick Snyder
Phone: 517.335.6397

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 3:32 PM
To: Biehl, Laura (GOV) <BiehlL@michigan.gov>; Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Heaton, Anna (GOV) <HeatonA@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>
Subject: RE: MA for review

Sigh of relief and good news on stream.

Also, Mott comms apparently said their building team recommended the name that appears on the outside of the building to help avoid confusion, which has a slightly revised address too.

Commerce Center/Mott Foundation Building - Conference Center, Ground Floor
519 S. Saginaw Street

We should add note about credentialed media as well.

From: Biehl, Laura (GOV)
Sent: Wednesday, October 07, 2015 3:18 PM

To: Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Heaton, Anna (GOV) <HeatonA@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>
Subject: RE: MA for review

Erik said we should be good on livestream.

From: Kennedy, Jordan (GOV)
Sent: Wednesday, October 07, 2015 2:51 PM
To: Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Heaton, Anna (GOV) <HeatonA@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>
Subject: MA for review
Importance: High

Team—

Below is the media advisory for tomorrow. The Livestream portion is highlighted because we are still checking to make sure the venue has livestreaming capabilities.

Wednesday, Oct. 7, 2015
Contact: Sara Wurfel or Dave Murray
Office: 517-335-6397

Editor's note: Media must present valid press credentials on site.

Thursday, Oct. 8 at 10 a.m.
Gov. Rick Snyder will make an announcement regarding the Flint water system. He will be joined by Flint Mayor Dayne Walling, Director of Environmental Quality, Dan Wyant, Director of the Department of Health and Human Services, Nick Lyon, Dr. Eden Wells, Chief Medical Executive at DHHS, and Ridgway White of the Charles Stewart Mott Foundation.

A livestream option is also available at [redacted]. If you wish to embed the event please visit [redacted] for more information.

Location:
Mott Foundation Building – Ground Floor
503 S. Saginaw St.
Flint, MI

Thursday, Oct. 8 at 7 p.m.
Snyder will offer remarks at the Celebration of Life Gala supporting Magen David Adom (Israel's national 911 and emergency services).

Location:
Adat Shalom Synagogue
29901 Middlebelt Rd.
Farmington Hills, MI

#####

Jordan Kennedy
Communications Representative
Executive Office of Governor Rick Snyder
Phone: 517.335.6397

From: Kennedy, Jordan (GOV)
Sent: Wednesday, October 07, 2015 4:48 PM
To: Wurfel, Sara (GOV)
Subject: Final Advisory

Wednesday, Oct. 7, 2015
Contact: Sara Wurfel or Dave Murray
Office: 517-335-6397

Editor's note: Media must present valid press credentials on site.

Thursday, Oct. 8 at 10 a.m.
Gov. Rick Snyder will make an announcement regarding the Flint water system. He will be joined by Flint Mayor Dayne Walling, Director of Environmental Quality, Dan Wyant, Director of the Department of Health and Human Services, Nick Lyon, Dr. Eden Wells, Chief Medical Executive at DHHS, and Ridgway White of the Charles Stewart Mott Foundation.

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Snyder will offer remarks at the Celebration of Life Gala supporting Magen David Adom (Israel's national 911 and emergency services).

Location:
Adat Shalom Synagogue
29901 Middlebelt Rd.
Farmington Hills, MI

#####

From: Sarah Cwiek <scwiek@umich.edu>
Sent: Monday, September 28, 2015 12:28 PM
To: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: Follow-up questions re: Flint water

Hi Sara and Dave,

I asked the Governor some questions about this in the Detroit scrum this morning. He told me everybody is still working on it, no specifics,waiting on "getting all the facts," but something should be announced this week.

I do understand that, but it does raise a couple of other question in the meantime:

--What "facts" are you still trying to get? What, specifically, is the factual dispute here at this point?
--Even if we don't have specifics yet, how much responsibility do the Governor and state ultimately bear for fixing the whole problem? Especially since the city had an EM when the water switch was made?

Thanks so much,

Sarah

--
Sarah Cwiek
Detroit reporter, Michigan Radio
Desk: (248) 850-8601
Mobile: PPI
www.michiganradio.org

From: Eggert, David <DEggert@ap.org>
Sent: Monday, September 28, 2015 4:10 PM
To: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: FW: FOR IMMEDIATE RELEASE: Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

Can one of you call me to discuss? Thx.

From: Angela Wittrock [mailto:AWittrock@senate.michigan.gov]
Sent: Monday, September 28, 2015 2:48 PM
To: Angela Wittrock
Subject: FOR IMMEDIATE RELEASE: Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

FOR IMMEDIATE RELEASE
September 28, 2015

Contact: Angela Wittrock
517.775.1430

Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

FLINT, Mich.—Senate Minority Leader Jim Ananich (D-Flint) issued the following statement:

"My constituents and I believe the state must act urgently to provide concrete solutions to the public health crisis in the City of Flint. In speaking with Governor Snyder and his key aides today, I stressed the need to work together on a number of initiatives that will ensure safe water for Flint residents.

"My formal request included immediate and long-term solutions, including strong consideration for switching back to the Detroit water source until the Karegnondi Pipeline Authority project is complete. Anything less than an aggressive, comprehensive approach is simply unacceptable."

A copy of Senator Ananich's letter to Governor Snyder can be viewed here.

###

Angela Wittrock
Press Secretary
Senate Minority Leader Jim Ananich
...
Boji Tower, Second Floor | Lansing, MI 48909-7536
P: 517.373.1339

C: PPI

Please sign up for our e-news at: Senatedems.com/Ananich
Facebook: jimananich | Twitter: @jimananich

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[IP_US_DISC]

msk dccc60c6d2c3a6438f0cf467d9a4938

From: Livengood, Chad <CLivengood@detroitnews.com>
Sent: Monday, September 28, 2015 4:15 PM
To: Wurfel, Sara (GOV)
Subject: FW: FOR IMMEDIATE RELEASE: Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

Sara,
Got a deadline question here about Senator Ananich's letter to the governor. Does he support having the city switch back to Detroit water until the Karegnondi pipeline is complete? Is there a plan being put together by the administration to deal with these elevated levels of lead in Flint children found by researchers at Hurley Medical Center? Can your characterize the governor's conversation with Senator Ananich today? Did he make any kind of commitment to take action?

-Chad

Chad Livengood
Capitol Reporter
The Detroit News
Lansing bureau: (517) 371-3660
Cell: PPI
clivengood@detroitnews.com
Twitter.com/ChadLivengood

From: Angela Wittrock [mailto:AWittrock@senate.michigan.gov]
Sent: Monday, September 28, 2015 2:48 PM
To: Angela Wittrock <AWittrock@senate.michigan.gov>
Subject: FOR IMMEDIATE RELEASE: Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

FOR IMMEDIATE RELEASE
September 28, 2015

Contact: Angela Wittrock
517.775.1430

Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

FLINT, Mich.—Senate Minority Leader Jim Ananich (D-Flint) issued the following statement:

"My constituents and I believe the state must act urgently to provide concrete solutions to the public health crisis in the City of Flint. In speaking with Governor Snyder and his key aides today, I stressed the need to work together on a number of initiatives that will ensure safe water for Flint residents.

"My formal request included immediate and long-term solutions, including strong consideration for switching back to the Detroit water source until the Karegnondi Pipeline Authority project is complete. Anything less than an aggressive, comprehensive approach is simply unacceptable."

A copy of Senator Ananich's letter to Governor Snyder can be viewed here.

###

Angela Wittrock
Press Secretary
Senate Minority Leader Jim Ananich

Boji Tower, Second Floor | Lansing, MI 48909-7536
P: 517.373.1339
C: **PPI**

Please sign up for our e-news at: Senatedems.com/Ananich
Facebook: jimananich | Twitter: @jimananich

From: Ryan Hermes <rhermes@learfield.com>
Sent: Monday, September 28, 2015 4:49 PM
To: Wurfel, Sara (GOV)
Subject: RE: Flint Water

Awesome. Thank you. And just in time. I was this/close to hitting "post" on the story for the morning.

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, September 28, 2015 4:48 PM
To: Ryan Hermes <rhermes@learfield.com>
Subject: RE: Flint Water

Hi there Ryan –

Gov. Snyder spoke with Sen. Ananich this morning about how the state can continue working with Flint city leaders. We believe protecting public health is paramount and safe, clean, accessible drinking water is essential . That's what we are focused on helping ensure and deeply share the Senator's commitment to helping address the issue. We just received the letter from the senator and are reviewing his ideas.

The governor and state agencies have been closely working with Flint leaders on their infrastructure challenges for months, including providing $4.2 million in grants and restructured loan financing to provide resources needed to locate and fix infrastructure problems and add the carbon filtration system, additional testing and helping identify and provide filters.

It's also important that people have accurate information about their health and water. The MI Depts of Environmental Quality and Health and Human Services are testing water and working with local agencies and Flint residents on issues related to what they can do if they have concerns about the pipes in their homes.

Thanks and hope this helps.
SW

From: Ryan Hermes [mailto:rhermes@learfield.com]
Sent: Monday, September 28, 2015 4:06 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint Water

Hi Sara,

Working up a quick story on Sen. Ananich's request that the state step in to help Flint with its water problem. Any statement from the governor on his request?

Thanks,

Ryan

Ryan Hermes
@RyanAHermes
Bureau Chief, Michigan Radio Network
T: 517-484-4888
C: PPI

From: Kyle Melinn <melinnky@gmail.com>
Sent: Monday, September 28, 2015 9:28 PM
To: Wurfel, Sara (GOV)
Subject: Re: Flint water Qs

Got it, Sara. Thanks. I just added it.

On Mon, Sep 28, 2015 at 9:24 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:
Per your text ...

Gov. Snyder spoke with Sen. Ananich this morning about how the state can continue working with Flint city leaders. We believe protecting public health is paramount and safe, clean, accessible drinking water is essential . That's what we are focused on helping ensure and deeply share the Senator's commitment to helping address the issue. We just received the letter from the senator and are reviewing his ideas.

The governor and state agencies have been closely working with Flint leaders on their infrastructure challenges for months, including providing $4.2 million in grants and restructured loan financing to provide resources needed to locate and fix infrastructure problems and add the carbon filtration system, additional testing and helping identify and provide filters.
It's also important that people have accurate information about their health and water. The MI Depts of Environmental Quality and Health and Human Services are testing water and working with local agencies and Flint residents on issues related to what they can do if they have concerns about the pipes in their homes.
{On background only: You probably recall the issues and challenges re: the history with DWSD. It's also important to note that switching back to Detroit water will not necessarily have the effect that some hope for or expect. Flint has long-term challenges with its water infrastructure that need to be addressed.}
Thanks and hope this helps. Let me know if you may need anything further.
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov<mailto:wurfels@michigan.gov>
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Livengood, Chad <CLivengood@detroitnews.com>
Sent: Tuesday, September 29, 2015 3:09 PM
To: Wurfel, Sara (GOV)
Subject: FW: Flint water filters

Can you or Dave please call me about Flint water issues? I have some questions about these water filters and about this team of people working on this issue that the governor talked about earlier during the press scrum. Thanks.

Chad Livengood
Capitol Reporter
The Detroit News
Lansing bureau: (517) 371-3660
Cell: PPI
clivengood@detroitnews.com
Twitter.com/ChadLivengood

From: Livengood, Chad
Sent: Tuesday, September 29, 2015 3:04 PM
To: 'Murray, David (GOV)' <MurrayD1@michigan.gov>
Subject: Flint water filters

Dave,
I'm following up on an MLive report about the governor playing a role in helping get 1,500 water filters to pastors in Flint through an anonymous donor. What can you tell me about this and the governor's involvement?

-Chad

Chad Livengood
Capitol Reporter
The Detroit News
Lansing bureau: (517) 371-3660
Cell: PPI
clivengood@detroitnews.com
Twitter.com/ChadLivengood

From: Livengood, Chad <CLivengood@detroitnews.com>
Sent: Tuesday, September 29, 2015 6:11 PM
To: Wurfel, Sara (GOV)
Subject: RE: Flint water filters

Dave got back with me on water filters.

Not Responsive

Chad Livengood
Capitol Reporter
The Detroit News
Lansing bureau: (517) 371-3660
Cell: PPI
clivengood@detroitnews.com
Twitter.com/ChadLivengood

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Tuesday, September 29, 2015 6:04 PM
To: Livengood, Chad <CLivengood@detroitnews.com>
Subject: RE: Flint water filters

I understood Dave got you on this asap, yes?

Please just let me know if you need anything else at all.

From: Livengood, Chad [mailto:CLivengood@detroitnews.com]
Sent: Tuesday, September 29, 2015 3:09 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: FW: Flint water filters

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Dave,
I'm following up on an MLive report about the governor playing a role in helping get 1,500 water filters to pastors in Flint through an anonymous donor. What can you tell me about this and the governor's involvement?

-Chad

Chad Livengood
Capitol Reporter
The Detroit News
Lansing bureau: (517) 371-3660
Cell: PPI
clivengood@detroitnews.com
Twitter.com/ChadLivengood

From: Kaffer, Nancy <nkaffer@freepress.com>
Sent: Wednesday, September 30, 2015 11:00 AM
To: Wurfel, Sara (GOV)
Cc: Henderson, Stephen
Subject: RE: Flint

Hi Sara,

Didn't hear from you yesterday. Writing today for tomorrow's paper -- saw Paul's story on the governor yesterday but would still love to discuss with you exactly what you're doing in Flint. Also interested in this MLive story about distribution of filters through the faith community -- would really love to discuss today -- again, I'm on deadline and available all day. If you can't reach me at my desk please try my cell: **PPI**

Best,

Nancy

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, September 28, 2015 9:38 PM
To: Kaffer, Nancy <nkaffer@freepress.com>
Cc: Henderson, Stephen <shenderson@freepress.com>
Subject: RE: Flint

We should slate some time to talk at length tomorrow, Nancy. I will be more than happy to walk through the history of what's been done already and what's in the works.

This is absolutely an issue the administration has been actively engaged on and will continue to do so – challenging issue on so many fronts but one we're committed to helping address – let there be no Q on that front.

I have some time in mid to late morning – hopefully between 10:15 and 11:15 though I know someone was trying to get something on my calendar then, again over lunch hour, or late afternoon after 4:15 p.m. Please let me know if one of those may work for you.

While on subject, am hoping a response from DEQ Director Dan Wyant and DHHS Director Nick Lyon on this topic may be in order that Free Press will run.

Thanks much,
SW

From: Kaffer, Nancy [mailto:nkaffer@freepress.com]
Sent: Monday, September 28, 2015 5:38 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Henderson, Stephen <shenderson@freepress.com>
Subject: RE: Flint

Hi Sara,

Wanted to touch base again before leaving for the day. I'm writing on this again this week, and really would like to know a) if you guys now believe there is an issue with lead in the water, or are engaging in further testing/analysis to determine if lead is an issue, and b) what exactly you guys are doing to help get safe drinking water to Flint kids.

Best,

Nancy

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abetternmichigan
313-222-6585
@nancykaffer, @abetternmi

From: Kaffer, Nancy
Sent: Monday, September 28, 2015 11:46 AM
To: 'Wurfel, Sara (GOV)' <Wurfels@michigan.gov>
Subject: RE: Flint

Can you give me some details of the things that you think are wrong? We always want to know about mistakes or errors.

Also, I asked you last week to comment on the situation – still interested in hearing what you are doing to respond to the water situation in Flint, which has resulted in an increasing number of children with elevated blood-lead levels. We're doing a follow-up, and would love to know what specifically the governor's office is doing.

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abetternmichigan
313-222-6585
@nancykaffer, @abetternmi

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, September 28, 2015 11:26 AM
To: Kaffer, Nancy <nkaffer@freepress.com>
Subject: RE: Flint

I'm still in disbelief and simmering to be quite frank over that column, Nancy. That was fairly unbelievable - 'resounding yawn'? Seriously? You picked and chose facts and components to weave together a set narrative, leaving out so many critical pieces of all the state, Governor and administration have done to help the city and its residents in this situation.

There has been and there will be more that we're doing on this front -- again do everything possible to play a supportive role and work in collaborative fashion across all levels of government, with the community, faith and business leaders, and residents. Protecting public health is paramount and safe, clean, accessible drinking water is essential. That's what we solely focused on helping ensure.

Back in touch later.
SW

From: Kaffer, Nancy [mailto:nkaffer@freepress.com]
Sent: Monday, September 28, 2015 11:14 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint

Any updates/changes on plans to handle the Flint water situation?

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Henderson, Stephen <shenderson@freepress.com>
Sent: Wednesday, September 30, 2015 1:36 PM
To: Kaffer, Nancy; Wurfel, Sara (GOV)
Subject: RE: Flint

I want to second Nancy's disappointment with the lack of response to our questions here.. We are asking about a major public health situation in a major city...

At minimum, I'd like to see our queries answered today; it might even make sense to get some time with the governor to discuss...

I doubt this is an issue that we are likely to lose interest in anytime soon.

Sent from Outlook

On Wed, Sep 30, 2015 at 8:00 AM -0700, "Kaffer, Nancy" <nkaffer@freepress.com> wrote:

Hi Sara,

Didn't hear from you yesterday. Writing today for tomorrow's paper – saw Paul's story on the governor yesterday but would still love to discuss with you exactly what you're doing in Flint. Also interested in this MLive story about distribution of filters through the faith community – would really love to discuss today – again, I'm on deadline and available all day. If you can't reach me at my desk please try my cell: **PPI**

Best,

Nancy

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I have some time in mid to late morning -- hopefully between 10:15 and 11:15 though I know someone was trying to get something on my calendar then, again over lunch hour, or late afternoon after 4:15 p.m. Please let me know if one of those may work for you.

While on subject, am hoping a response from DEQ Director Dan Wyant and DHHS Director Nick Lyon on this topic may be in order that Free Press will run.

Thanks much,
SW

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Nancy

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From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, September 28, 2015 11:26 AM
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There has been and there will be more that we're doing on this front – again do everything possible to play a supportive role and work in collaborative fashion across all levels of government, with the community, faith and business leaders, and residents. Protecting public health is paramount and safe, clean, accessible drinking water is essential. That's what we solely focused on helping ensure.

Back in touch later.
SW

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Sent: Monday, September 28, 2015 11:14 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint

Any updates/changes on plans to handle the Flint water situation?

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
PPI
@nancykaffer, @abettermi

From: Ryan Felton <ryanfelton13@gmail.com>
Sent: Wednesday, September 30, 2015 2:11 PM
To: Murray, David (GOV); Wurfel, Sara (GOV)
Subject: Re: PRESS INQUIRY | The Guardian re: Flint

Hi all,

Following up to see if I can expect a response later this afternoon.

Thanks much!

On Tue, Sep 29, 2015 at 3:37 PM, Ryan Felton <ryanfelton13@gmail.com> wrote:
Hi all,

I wanted to see if the governor's office would have any response to the call from Senate minority leader Jim Ananich to have Flint reconnect with Detroit's water system. It's for a story I'm working on for the Guardian, regarding the increase in lead levels in the blood of Flint children ever since the city switched to using the Flint River.

Additionally, can you confirm whether or not the governor's office backed plans from Flint's emergency manager to transfer from using DWSD to the Flint River?

I'm working on a 5 pm deadline for tomorrow (9/30). I appreciate your time and look forward to the response.

Best,

Ryan Felton
Journalist
Detroit, MI
734.353.2221
ryanfelton.tumblr.com
Twitter: @ryanfelton13

--
Ryan Felton
Journalist
Detroit, MI
734.353.2221
ryanfelton.tumblr.com
Twitter: @ryanfelton13

From: Murray, David (GOV)
Sent: Wednesday, September 30, 2015 2:47 PM
To: Ryan Felton
Cc: Wurfel, Sara (GOV)
Subject: Re: PRESS INQUIRY | The Guardian re: Flint

Hello Ryan,

Gov. Snyder continues to work with Sen. Ananich and others about the concerns raised about Flint's water and the city's challenges with its infrastructure. We are working closely with federal and state agencies as well as city leaders and we expect an announcement about some additional steps later this week.

Gov. Snyder believes all state residents to have access to clean, safe water.
The governor and the state agencies have played a highly visible role in working with Flint city leaders with their infrastructure challenges -- and will continue to do so. We understand why people are frustrated, and also want to make sure people have accurate information and know where they can go if they have questions about their health and the water connections in their home. The health and safety of Flint residents is always the first priority, and that includes ensuring there is clean, safe drinking water -- especially for children.

We're working to build upon existing state efforts to work with Flint leaders on their infrastructure needs. The state so far has provided $4.2 million in grants and restructured financing to help the city locate and fix some of the problems with its water infrastructure and add the carbon filtration system. Several state agencies continue to work with Flint leaders on their water challenges including through Mayor Walling's technical advisory board. That board includes outside experts and members will study data and offer recommendations.

The Department of Environmental Quality and the Department of Health and Human Services also are testing water and working with Flint residents on issues related to what they can do if they have concerns about the pipes in their homes.

It's important to remember that the emergency manager had the final say on making the change, but did so at the strong urging of Flint city leaders.

Decisions about changes to the water system were not forced upon the city. Emergency managers often try to work closely with mayors and city councils, getting recommendations from the local communities they are serving. The decision to make the switch to the Karegnondi pipeline came after an 8-1 vote by the City Council and strong endorsement by the mayor and Genesee County leaders. The move also came after a series of upgrades to Flint's water treatment plant.

It's also important to remember that switching back to Detroit water will not necessarily have the effect that some expect. Flint has long-term challenges with its water infrastructure that need to be addressed.

I urge you to contact Angela Minicuci at MDHHS, who can discuss how state blood test data is different than what has been reported.

Dave

Sent from my iPad

On Sep 30, 2015, at 2:10 PM, Ryan Felton <ryanfelton13@gmail.com> wrote:

> Hi all,
>
> Following up to see if I can expect a response later this afternoon.
>
> Thanks much!
>
> On Tue, Sep 29, 2015 at 3:37 PM, Ryan Felton <ryanfelton13@gmail.com> wrote:
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> Best,
>
> Ryan Felton
> Journalist
> Detroit, MI
> 734.353.2221
> ryanfelton.tumblr.com
> Twitter: @ryanfelton13
>
> --
> Ryan Felton

Journalist
Detroit, MI
PPI
ryanfelton.tumblr.com
Twitter: @ryanfelton13

From: Kaffer, Nancy <nkaffer@freepress.com>
Sent: Wednesday, September 30, 2015 6:17 PM
To: Wurfel, Sara (GOV)
Subject: RE: Grant

I'm a little confused about this press release … it sounds like the majority of that grant is to replace an incinerator, and $900k is create a map of leaks in pipes so that the city can prioritize repair, and provide a pipe thickness assessment that will contribute to the city's water main replacement program … was any of this directly prompted by the existence of lead and copper pipes, and the impact to those pipes of the more-corrosive Flint River water?

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Wurfel, Sara (GOV) [mailto:WurfelS@michigan.gov]
Sent: Wednesday, September 30, 2015 6:04 PM
To: Kaffer, Nancy <nkaffer@freepress.com>
Subject: Grant
Importance: High

Here's one example of the funding that has been allocated:

http://www.michigan.gov/snyder/0,4668,7-277-57577_57657-346722--,00.html

From: Lynch, James <JLynch@detroitnews.com>
Sent: Thursday, October 01, 2015 4:32 PM
To: Wurfel, Sara (GOV)
Subject: RE: Hey Sara.

Great Sara.
Thanks

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Thursday, October 01, 2015 4:30 PM
To: Lynch, James
Subject: RE: Hey Sara.

Hi there Jim –

Would say this issue is one that we've been actively engaged on and our administration will be outlining a collaborative, comprehensive action plan tomorrow afternoon. We believe protecting public health is paramount and safe, clean, accessible drinking water is essential . That's what we are focused on helping ensure and working together across local, state and federal levels to bring all resources and ideas to bear.

Would add that the governor and state agencies have been closely working with Flint leaders on their infrastructure challenges for a while, including providing $4.2 million in grants and restructured loan financing to provide resources needed to locate and fix infrastructure problems and add the carbon filtration system, additional testing and helping identify and provide filters.

Hope that helps.

Thanks and best,
SW

From: Lynch, James [mailto:JLynch@detroitnews.com]
Sent: Thursday, October 01, 2015 3:17 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Hey Sara.

Any chance we can get a comment out of the governor's office regarding this collection of enviro/civil rights groups asking the EPA to step in to the Flint water situation?

Jim Lynch
The Detroit News
(313) 727-5045
jlynch@detnews.com

From: Maloney, Damon <damon.maloney@abc12.com>
Sent: Thursday, October 01, 2015 10:42 PM
To: Wurfel, Sara (GOV)
Subject: RE: Friday Press Conference

Thank you for press conference details.
We agree to the terms of conference call with Governor.

As far as which reporter will do it - it depends on what time it will be taking place. It could be a day side reporter or "afternoon/night side reporter". Is that something we can touch base with you on tomorrow prior to it happening?

Damon

Sent via the Samsung GALAXY S®4, an AT&T 4G LTE smartphone

-------- Original message --------
From: "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>
Date: 10/01/2015 10:32 PM (GMT-05:00)
To: "Maloney, Damon" <damon.maloney@abc12.com>
Cc: "Murray, David (GOV)" <MurrayD1@michigan.gov>
Subject: RE: Friday Press Conference

That's absolutely right, Damon.

You and the station should have gotten a media advisory from the DEQ and DHHS teams. A cut and paste version is below just in case. This event is for media only.

Also, for your planning purposes only, we're looking at hosting a conference call with the Governor to walk through some highlights on a fully EMBARGOED (all hold and not reported/aired until the press conference begins) basis. Please let me know if that's workable and WJRT agrees to that. And if so, who would be representing the station.

Oct. 1, 2015

Michigan leaders to announce action plan for Flint drinking water

Friday, Oct. 2 at 1:30 p.m.
Local, state and federal leaders will host a press conference to announce a comprehensive action plan for addressing drinking water concerns in Flint. Participants will include:

* Harvey Hollins, Director of the Office of Urban Initiatives for Gov. Rick Snyder
* Dan Wyant, Director for the Michigan Department of Environmental Quality
* Nick Lyon, Director for the Michigan Department of Health and Human Services
* Dr. Eden Wells, Chief Medical Executive for the Michigan Department of Health and Human Services
* Dayne Walling, Mayor of Flint
* Other local, state and federal officials

Location:
Kettering University, Innovation Center
1300 Bluff St.
Flint, MI 48504

This is a media event open to credentialed news media only. Media who plan to attend this event should RSVP by noon Friday. Contact Rosemarie Olszewski at 517-284-6700 or olszewskir@michigan.gov.

-----Original Message-----
From: Maloney, Damon [mailto:damon.maloney@abc12.com]
Sent: Thursday, October 01, 2015 9:57 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Friday Press Conference

Hello,

We are hearing from newspaper reports that a press conference is set for tomorrow at 1:30 pm at Kettering University with state and city officials to discuss next steps for Flint water.

Wanted to inquire about such a meeting taking place.

Thank you,
Damon

Damon Maloney
abc12 News
Sent from my iPhone

From: Dave Bondy <dbondy@sbgtv.com>
Sent: Friday, October 02, 2015 12:21 AM
To: Wurfel, Sara (GOV)
Subject: Re: NBC 25 Request

I'll email this to my news director and have him or my assistant nd get back with you as soon as they can

Dave Bondy
Anchor/Reporter
dbondy@sbgtv.com
810-247-6309

On Oct 2, 2015, at 12:09 AM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

> Greetings, Dave –
>
> You and the station should have gotten a media advisory from the DEQ and DHHS teams about a news conference tomorrow in Flint – though the Governor won't be there for that specific event. A cut and paste version is below just in case. This event is for media only.
>
> However and for your planning purposes only, we're looking at hosting a conference call with the Governor at about 11:15 a.m. to answer Qs and walk through some highlights on a fully EMBARGOED (all held and not reported/aired until the press conference begins) basis. Please let me know if that's workable and WEYI agrees to that. And if so, who would be representing the station.
>
> Thanks and look forward to working with you on this.
> SW
>
> ---
> Oct. 1, 2015
>
> Michigan leaders to announce action plan for Flint drinking water
>
> Friday, Oct. 2 at 1:30 p.m.
> Local, state and federal leaders will host a press conference to announce a comprehensive action plan for addressing drinking water concerns in Flint. Participants will include:
> * Harvey Hollins, Director of the Office of Urban Initiatives for Gov. Rick Snyder
> * Dan Wyant, Director for the Michigan Department of Environmental Quality
> * Nick Lyon, Director for the Michigan Department of Health and Human Services
> * Dr. Eden Wells, Chief Medical Executive for the Michigan Department of Health and Human Services
> * Dayne Walling, Mayor of Flint
> * Other local, state and federal officials
>
> Location:
> Kettering University, Innovation Center
> 1300 Bluff St.
> Flint, MI 48504

This is a media event open to credentialed news media only. Media who plan to attend this event should RSVP by noon Friday. Contact Rosemarie Olszewski at 517-284-6700 or olszewskir@michigan.gov.

From: Dave Bondy [mailto:dbondy@sbgtv.com]
Sent: Thursday, October 01, 2015 6:30 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: NBC 25 Request

I am hearing reports the governor is coming to Flint tomorrow to address Flint water?

Dave Bondy
Anchor/Reporter
dbondysbgtv.com
CELL- PPI
<image001.jpg>

From: Maloney, Damon <damon.maloney@abc12.com>
Sent: Friday, October 02, 2015 8:21 AM
To: Wurfel, Sara (GOV)
Subject: RE: Friday Press Conference

Hi Sara.

For Friday's 11:15 a.m. phone conference with Gov. Snyder... I - Damon Maloney will represent WJRT-TV (ABC12-Flint).

Thank you!

Damon Maloney
Reporter/Anchor - ABC12 News
PPI (cell)
damon.maloney@abc12.com
On Facebook

From: Wurfel, Sara (GOV) [Wurfels@michigan.gov]
Sent: Thursday, October 01, 2015 10:43 PM
To: Maloney, Damon
Subject: RE: Friday Press Conference

Timing would be 11:15 a.m. – and yes, please just let us know tomorrow morning.

From: Maloney, Damon [mailto:damon.maloney@abc12.com]
Sent: Thursday, October 01, 2015 10:42 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: Friday Press Conference

Thank you for press conference details.
We agree to the terms of conference call with Governor.

As far as which reporter will do it - it depends on what time it will be taking place. It could be a day side reporter or "afternoon/night side reporter". Is that something we can touch base with you on tomorrow prior to it happening?

Damon

Sent via the Samsung GALAXY S®4, an AT&T 4G LTE smartphone

-------- Original message --------
From: "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>
Date: 10/01/2015 10:32 PM (GMT-05:00)
To: "Maloney, Damon" <damon.maloney@abc12.com>

Cc: "Murray, David (GOV)" <MurrayD1@michigan.gov>
Subject: RE: Friday Press Conference

That's absolutely right, Damon.

You and the station should have gotten a media advisory from the DEQ and DHHS teams. A cut and paste version is below just in case. This event is for media only.

Also, for your planning purposes only, we're looking at hosting a conference call with the Governor to walk through some highlights on a fully EMBARGOED (all hold and not reported/aired until the press conference begins) basis. Please let me know if that's workable and WJRT agrees to that. And if so, who would be representing the station.

Oct. 1, 2015

Michigan leaders to announce action plan for Flint drinking water

Friday, Oct. 2 at 1:30 p.m.
Local, state and federal leaders will host a press conference to announce a comprehensive action plan for addressing drinking water concerns in Flint. Participants will include:

* Harvey Hollins, Director of the Office of Urban Initiatives for Gov. Rick Snyder
* Dan Wyant, Director for the Michigan Department of Environmental Quality
* Nick Lyon, Director for the Michigan Department of Health and Human Services
* Dr. Eden Wells, Chief Medical Executive for the Michigan Department of Health and Human Services
* Dayne Walling, Mayor of Flint
* Other local, state and federal officials

Location:
Kettering University, Innovation Center
1300 Bluff St.
Flint, MI 48504

This is a media event open to credentialed news media only. Media who plan to attend this event should RSVP by noon Friday. Contact Rosemarie Olszewski at 517-284-6700 or olszewskir@michigan.gov.

-----Original Message-----
From: Maloney, Damon [mailto:damon.maloney@abc12.com]
Sent: Thursday, October 01, 2015 9:57 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Friday Press Conference

Hello,

We are hearing from newspaper reports that a press conference is set for tomorrow at 1:30 pm at Kettering University with state and city officials to discuss next steps for Flint water.

Wanted to inquire about such a meeting taking place.

Thank you,
Damon

Damon Maloney
abc12 News
Sent from my iPhone

From: Zacharek, Dan <DZacharek@wxyz.com>
Sent: Friday, October 02, 2015 10:24 AM
To: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: RE: WXYZ-TV

Jim Kiertzner will be on the call.

From: Wurfel, Sara (GOV) [mailto:WurfelS@michigan.gov]
Sent: Friday, October 02, 2015 9:54 AM
To: Zacharek, Dan <DZacharek@wxyz.com>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: WXYZ-TV
Importance: High

Hi there Dan –

Per earlier conversation, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

As agreed by you and WXYZ team, this information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.

SPECIFIC CALL-IN DETAILS:
Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.
Conference Line call-in number: **PPI**
Conference line passcode: **PPI**
** To ask a question during that portion of the call, please press "0." (but please refrain from pressing zero until opening remarks are completed to help ensure you don't miss any of the details).

****NOTE**:** This invitation is for planning purposes only and meant for you and/or your outlet as there are a limited number of participant lines. Please let us know if you wish to have someone else participate so we can work to accommodate.

Please let us know if who from CH 7 plans to participate or if you need anything else at all in interim.

Thanks and best,
SW

From: Zacharek, Dan [mailto:DZacharek@wxyz.com]
Sent: Friday, October 02, 2015 9:44 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: WXYZ-TV

Hi Sara and David,

Hope you are well. Checking to see if someone can please send me the info on today's 11:30am teleconference call about the Flint water situation.

Thank you.

Dan Z.

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Scripps Media, Inc., certifies that its advertising sales agreements do not discriminate on the basis of race or ethnicity. All advertising sales agreements contain nondiscrimination clauses.

From: Kaffer, Nancy <nkaffer@freepress.com>
Sent: Friday, October 02, 2015 10:34 AM
To: Wurfel, Sara (GOV); Gray, Kathleen; Erb, Robin; Kristi Tanner - Detrot Free Press
Subject: RE: Embargoed media conf. call - Flint water action plan

Hi Sara – I think you can expect myself, Kathy, Robin, editors TBD and probably Keith Matheny and Stephen. Is this with Freep only or will other media be on the call?

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Friday, October 02, 2015 9:34 AM
To: Gray, Kathleen <kgray@freepress.com>; Kaffer, Nancy <nkaffer@freepress.com>; Erb, Robin <rerb@freepress.com>; Kristi Tanner - Detrot Free Press <ktanne@freepress.com>
Subject: Embargoed media conf. call - Flint water action plan
Importance: High

Hi Kathy, Robin, Nancy & Kristi –

Per earlier conversations, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

As agreed by you and your teams, this information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.

SPECIFIC CALL-IN DETAILS:
Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.
Conference Line call-in number: **PPI**
Conference line passcode: PPI
** To ask a question during that portion of the call, please press "0." (but please refrain from pressing zero until opening remarks are completed to help ensure you don't miss any of the details).

****NOTE**:** This invitation is for planning purposes only and meant for you and/or your outlet as there are a limited number of participant lines. Please let us know if you wish to have someone else participate so we can work to accommodate.

Please let us know if who from Detroit Free Press plan to participate or if you need anything else at all.

Thanks so much,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI
Twitter:@SaraLW

From: Rick Pluta <rickp@mprn.org>
Sent: Friday, October 02, 2015 10:52 AM
To: Wurfel, Sara (GOV); Zoe Clark
Subject: Re: Embargoed media conf. call - Flint water action plan

Fully embargoed. Thanks.

Rick Pluta
managing editor/Capitol bureau chief
Michigan Public Radio Network
PPI (cell)

>>> "Wurfel, Sara (GOV)" <Wurfels@michigan.gov> 10/2/2015 10:48 AM >>>
Hi there Pluta and Zoe -

Per earlier conversation, below is information for a media conference call with Gov. Snyder and Cabinet leaders - MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive - to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

As agreed by you and your MPRN/MI Radio teams, this information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.

SPECIFIC CALL-IN DETAILS:
Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.
Conference Line call-in number: PPI Conference line passcode: PPI
** To ask a question during that portion of the call, please press "0."
(but please refrain from pressing zero until opening remarks are completed to help ensure you don't miss any of the details).

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Please let me know if you need anything else at all in interim.

Thanks so much,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder wurfels@michigan.gov<mailto:wurfels@michigan.gov>
517-335-6397, office
PPI
Twitter:@SaraLW

From: Maloney, Damon <damon.maloney@abc12.com>
Sent: Friday, October 02, 2015 11:15 AM
To: Wurfel, Sara (GOV)
Subject: Re: Embargoed media conf. call - Flint water action plan

Hi Sara - we can record audio from 1115 conference call- fully understanding all is embargoed until 130 news conference at Kettering ??

Damon Maloney
abc12 News
Sent from my iPhone

On Oct 2, 2015, at 9:38 AM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

> Hi there Damon -
>
> Per earlier conversations, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.
>
> They will also be available to answer Qs.
>
> As agreed by you and your team, this information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.
>
> SPECIFIC CALL-IN DETAILS:
> **Topic**: Flint water action plan
> **Date**: Friday, Oct. 2
> **Time**: 11:15 a.m.
> **Conference Line call-in number:** **PPI**
> **Conference line passcode:** **PPI**
> ** To ask a question during that portion of the call, please press "0." (but please refrain from pressing zero until opening remarks are completed to help ensure you don't miss any of the details).
>
> ****NOTE**:** This invitation is for planning purposes only and meant for you and/or your outlet as there are a limited number of participant lines. Please let us know if you wish to have someone else participate so we can work to accommodate.
>
> Thanks so much,
> SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI
Twitter:@SaraLW

From: Davey, Monica <davey@nytimes.com>
Sent: Friday, October 02, 2015 11:35 AM
To: Wurfel, Sara (GOV)
Subject: Re: Monica checking

i'm on now but missed the rest

On Fri, Oct 2, 2015 at 10:30 AM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:
Hi there Monica -

Governor not in Flint today but he's hosting an embargoed media conf right NOW. If you can join us, please do. I can walk you through afterward too if not.

Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

This information is fully embargoed until when the 1:30 p.m.<x-apple-data-detectors://0>press conference later today in Flint begins.

SPECIFIC CALL-IN DETAILS:
Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.<x-apple-data-detectors://2>
Conference Line call-in number: PPI <tel: PPI
Conference line passcode: PPI
** To ask a question during that portion of the call, please press "0." (but please refrain from pressing zero until opening remarks are completed to help ensure you don't miss any of the details).

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Please let me know if you need anything else at all in interim.

Sent from my iPhone

On Oct 2, 2015, at 11:01 AM, Davey, Monica <davey@nytimes.com<mailto:davey@nytimes.com>> wrote:

Sara and Dave:
Is the governor going to be at the Flint Water presser?
If not, will he have remarks after?
If there are plans for a trip there, when is he expecting to go there?

Thanks
Monica

From: Davey, Monica <davey@nytimes.com>
Sent: Friday, October 02, 2015 11:44 AM
To: Wurfel, Sara (GOV)
Subject: Re: Monica checking

can you call me? 312 543 4883

On Fri, Oct 2, 2015 at 10:30 AM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:
Hi there Monica -

Governor not in Flint today but he's hosting an embargoed media conf right NOW. If you can join us, please do. I can walk you through afterward too if not.

Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

This information is fully embargoed until when the 1:30 p.m.<x-apple-data-detectors://0>press conference later today in Flint begins.

SPECIFIC CALL-IN DETAILS:
Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.<x-apple-data-detectors://2>
Conference Line call-in number: PPI)<tel:PPI >
Conference line passcode: PPI
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Please let me know if you need anything else at all in interim.

Sent from my iPhone

On Oct 2, 2015, at 11:01 AM, Davey, Monica <davey@nytimes.com<mailto:davey@nytimes.com>> wrote:

Sara and Dave:
Is the governor going to be at the Flint Water presser?
If not, will he have remarks after?
If there are plans for a trip there, when is he expecting to go there?

Thanks
Monica

From: Livengood, Chad <CLivengood@detroitnews.com>
Sent: Friday, October 02, 2015 11:48 AM
To: Wurfel, Sara (GOV); Murray, David (GOV)
Cc: Lynch, James
Subject: RE: Embargoed media conf. call - Flint water action plan

Sara or Dave,

Quick follow-up question: In reference to the plan to immediately test water coming out of the faucets of all schools in Flint Community Schools, will the water at Flint's public charter schools be tested as well? I don't have an exact count, but I'm guessing there are a half-dozen or more charter schools in Flint.

-Chad

Chad Livengood
Capitol Reporter
The Detroit News
Lansing bureau: (517) 371-3660
Cell: PPI
clivengood@detroitnews.com
Twitter.com/ChadLivengood

From: Wurfel, Sara (GOV) [mailto:WurfelS@michigan.gov]
Sent: Friday, October 02, 2015 9:48 AM
To: Lynch, James <JLynch@detroitnews.com>; Livengood, Chad <CLivengood@detroitnews.com>
Subject: Embargoed media conf. call - Flint water action plan
Importance: High

Hi there Jim and Chad –

Per earlier conversations, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

As agreed by you and your team, this information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.

SPECIFIC CALL-IN DETAILS:
Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.
Conference Line call-in number: PPI

Conference line passcode: PPI
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Please let us know if who from Detroit News plans to participate or if you need anything else at all in interim.

Thanks so much,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Davey, Monica <davey@nytimes.com>
Sent: Friday, October 02, 2015 12:12 PM
To: Wurfel, Sara (GOV)
Subject: Re: Monica checking

Trying to reach you -- 312 543 4883 if you get a minute

On Fri, Oct 2, 2015 at 10:43 AM, Davey, Monica <davey@nytimes.com> wrote:
can you call me? 312 543 4883

On Fri, Oct 2, 2015 at 10:30 AM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:
Hi there Monica -

Governor not in Flint today but he's hosting an embargoed media conf right NOW. If you can join us, please do. I can walk you through afterward too if not.

Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

This information is fully embargoed until when the 1:30 p.m.<x-apple-data-detectors://0>press conference later today in Flint begins.

SPECIFIC CALL-IN DETAILS:
Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.<x-apple-data-detectors://2>
Conference Line call-in number: PPI <tel: PPI >
Conference line passcode: PPI
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Please let me know if you need anything else at all in interim.

Sent from my iPhone

On Oct 2, 2015, at 11:01 AM, Davey, Monica <davey@nytimes.com<mailto:davey@nytimes.com>> wrote:

Sara and Dave:

Is the governor going to be at the Flint Water presser?
If not, will he have remarks after?
If there are plans for a trip there, when is he expecting to go there?
Thanks
Monica

From: Dave Bondy <dbondy@sbgtv.com>
Sent: Friday, October 02, 2015 12:33 PM
To: Wurfel, Sara (GOV)
Subject: Re: From NBC 25/Fox 66 in Flint

I'm at home and not at work but I just saw this article just posted by mlive. I thought the governors plan was supposed to be embargoed until the news conference?
http://www.mlive.com/news/flint/index.ssf/2015/10/state_water_plan_for_flint_inc.html
Dave Bondy
Anchor/Reporter
dbondy@sbgtv.com
810-247-6309

On Oct 2, 2015, at 10:05 AM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

> Hi there Drew -
>
> Per earlier exchange, below is information for a media conference call with Gov. Snyder and Cabinet leaders - MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive - to outline a comprehensive action plan to further address Flint water concerns.
>
> They will also be available to answer Qs.
>
> As agreed by you and TV 26/Fox 66 teams, this information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.
>
> SPECIFIC CALL-IN DETAILS:
> Topic: Flint water action plan
> Date: Friday, Oct. 2
> Time: 11:15 a.m.
> Conference Line call-in number: PPI
> Conference line passcode: PPI
> ** To ask a question during that portion of the call, please press "0." (but please refrain from pressing zero until opening remarks are completed to help ensure you don't miss any of the details).
>
> **NOTE**: This invitation is for planning purposes only and meant for you and/or your outlet as there are a limited number of participant lines. Please let us know if you wish to have someone else participate so we can work to accommodate.
>
> -----Original Message-----
> From: Andrew Moore [mailto:amoore@sbgtv.com]

Sent: Friday, October 02, 2015 12:34 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Dave Bondy <dbondy@sbgtv.com>; Neille-Ann Giffune <ngiffune@sbgtv.com>; Michael Schram <mschram@sbgtv.com>
Subject: From NBC 25/Fox 66 in Flint

My name is Drew Moore and I will be doing the story tomorrow regarding the announcement. I just need a number to call and we will be on the line . Hopefully this is great news for the residents of Flint. How much time will we have to ask questions about the announcement to the governor?

Drew Moore
Reporter

Sent from my iPhone

From: Eggert, David <DEggert@ap.org>
Sent: Friday, October 02, 2015 3:18 PM
To: Eisner, Jennifer (DHHS)
Cc: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: RE: $1M

Jennifer,

How much are you spending for the people on public assistance to get filters?

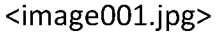
From: Eisner, Jennifer (DHHS) [mailto:EisnerJ@michigan.gov]
Sent: Friday, October 02, 2015 12:46 PM
To: Eggert, David
Subject: Re: $1M

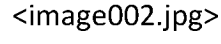
Hey Dave- We are currently working with retailers on pricing and the purchasing process. Based on where we are in those discussions, our partnerships with community organizations, and MDHHS emergency funds, we feel confident that Flint residents will have access to filters.

Sent from my iPhone

On Oct 2, 2015, at 11:52 AM, "Eggert, David" <DEggert@ap.org> wrote:

> How many water filters can you buy with $1M? Thx.





David Eggert
State government reporter

215 S. Washington Square, Suite 170
Lansing, MI 48933
T 517-482-8011
M PPI

deggert@ap.org
www.ap.org

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and delete this email. Thank you.
[IP_US_DISC]

msk dccc60c6d2c3a6438f0cf467d9a4938

From: Ryan Felton <ryanfelton13@gmail.com>
Sent: Friday, October 02, 2015 3:38 PM
To: Murray, David (GOV); Wurfel, Sara (GOV); Wurfel, Brad (DEQ)
Subject: Re: Confirm details of teleconference?

Hi all,

Noticed a response was passed along to Michigan Radio, in which MDEQ says lime softening has been used as a corrosion control agent "all along." Is that accurate? If so, does "all along" mean ever since Flint switched to the Flint River?

Thanks.

On Fri, Oct 2, 2015 at 2:16 PM, Ryan Felton <ryanfelton13@gmail.com> wrote:
Hi David, et. al:

DEQ's Wyant said this afternoon the city used corrosion controls to treat the water post-switch from DWSD. Can you tell me what agents were used, and when?

Thanks much,
Ryan

On Fri, Oct 2, 2015 at 1:45 PM, Murray, David (GOV) <MurrayD1@michigan.gov> wrote:
It was a small group given the time limits we were facing. Will be sure to keep you in mind.

Sent from my iPhone

On Oct 2, 2015, at 1:44 PM, Ryan Felton <ryanfelton13@gmail.com<mailto:ryanfelton13@gmail.com>> wrote:

OK. Would appreciate any notification of such a conference call in the future. Thanks much!

On Fri, Oct 2, 2015 at 1:40 PM, Murray, David (GOV) <MurrayD1@michigan.gov<mailto:MurrayD1@michigan.gov>> wrote:
Reconnecting is an option that the city can consider.

Sent from my iPhone

On Oct 2, 2015, at 1:32 PM, Ryan Felton <ryanfelton13@gmail.com<mailto:ryanfelton13@gmail.com><mailto:ryanfelton13@gmail.com<mailto:ryanfelton13@gmail.com>>> wrote:

Hi David,

I wanted to see if you could confirm reported details of the teleconference call this morning, in that Flint might reconnect with Detroit water?

Additionally, was this a call open to the media? It would've been nice to be on that call.

Best,

Ryan Felton
Journalist
Detroit, MI
734.353.2221<tel:734.353.2221>
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Twitter: @ryanfelton13

From: Eggert, David <DEggert@ap.org>
Sent: Friday, October 02, 2015 5:14 PM
To: Eisner, Jennifer (DHHS)
Cc: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: RE: $1M

OK. Quick follow-up -- are filters for residents and businesses? And can people get more than 1 per house?

From: Eisner, Jennifer (DHHS) [mailto:EisnerJ@michigan.gov]
Sent: Friday, October 02, 2015 4:00 PM
To: Eggert, David
Cc: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: Re: $1M

We're still determining the quantities needed, associated costs, and purchasing process. Director Lyon is commited to ensuring that our clients can obtain filters and have safe drinking water.

From: Eggert, David <DEggert@ap.org>
Sent: Friday, October 2, 2015 3:18:09 PM
To: Eisner, Jennifer (DHHS)
Cc: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: RE: $1M

Jennifer,

How much are you spending for the people on public assistance to get filters?

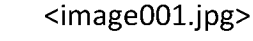
From: Eisner, Jennifer (DHHS) [mailto:EisnerJ@michigan.gov]
Sent: Friday, October 02, 2015 12:46 PM
To: Eggert, David
Subject: Re: $1M

Hey Dave- We are currently working with retailers on pricing and the purchasing process. Based on where we are in those discussions, our partnerships with community organizations, and MDHHS emergency funds, we feel confident that Flint residents will have access to filters.

Sent from my iPhone

On Oct 2, 2015, at 11:52 AM, "Eggert, David" <DEggert@ap.org> wrote:

> How many water filters can you buy with $1M? Thx.



David Eggert
State government reporter

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M PPI

deggert@ap.org
www.ap.org

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[IP_US_DISC]

msk dccc60c6d2c3a6438f0cf467d9a4938

From: Ronald Fonger <RFONGER1@mlive.com>
Sent: Monday, October 05, 2015 9:37 AM
To: Wurfel, Sara (GOV)
Cc: Murray, David (GOV)
Subject: national guard water tanker suggestion

Sara:
We are seeking comment for a story based on the request to the governor by Genesee County Clerk-Register and former state senator John Gleason to consider using National Guard water tankers in response to providing water to Flint residents.
I've attached a letter from Gleason to Gov. Snyder from September 2014 on this subject.
Mr. Gleason said last week that's he's spoken in recent days to state Sens. Horn and Ananich in an new effort to get Flint access to the National Guard water tankers.
Thanks in advance for your help.

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Macaluso, Nora <nmacaluso@bna.com>
Sent: Monday, October 05, 2015 9:41 AM
To: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: FW: News Release: Flint Water Crisis Action, Probe Urged

Good morning. Do you have any comment on this request for an investigation? Is the governor looking into how the DEQ missed the problem? Writing today, deadline 4 p.m. Though of course this is an ongoing story.

Thanks ..

>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Nora Macaluso
Staff Correspondent

Bloomberg BNA

Direct/Mobile PPI
nmacaluso@bna.com

From: Michigan Chapter Sierra Club [mailto:michigansierraclubmedia@gmail.com]
Sent: Friday, October 02, 2015 4:11 PM
Subject: News Release: Flint Water Crisis Action, Probe Urged

Sierra Club Calls For Urgent Action on Snyder Water Plan, Probe of Michigan Department of Environmental Quality

FOR IMMEDIATE RELEASE

Friday, October 2, 2015

Media Contact: David Holtz, david@davidholtz.org/313-300-4454

LANSING—Sierra Club today called on Gov. Rick Snyder to act decisively and urgently to implement plans to end the public health crisis in Flint and to support an independent

investigation into the Michigan Department of Environmental Quality's oversight of federal drinking water laws.

"Given the clear risks to vulnerable populations and the state's public health responsibilities this is a time for strong leadership and accountability from state public health authorities and the governor," said **David Holtz**, **Sierra Club** Michigan Chair. "The governor, finally, is assuming direct responsibility for responding to a crisis that every day is damaging the health of Flint's children. His actions should be much stronger, however, and he needs to find out how we got to the point where Flint children are drinking lead and what the MDEQ's role was in those decisions and actions."

The Snyder administration today outlined a series of steps they will take to address Flint's public health crisis. They include accelerated and expanded water treatment, providing filters to some residents, expanded testing of residents and an examination of whether to temporarily switch back to the Detroit water system. Replacing Flint's lead pipes over time were also on the administration's to-do list.

Sierra Club Michigan Director **Gail Philbin** said only independent testing of Flint's water for lead will be credible because of questions raised regarding the city and MDEQ's handling of past test results.

"Parents need to know drinking water is safe for their children," said Philbin. "Immediately they need credible testing for lead and alternatives to contaminated water. The likely best way to ensure safe drinking water in Flint is to change to a safe and reliable drinking water source and that's Detroit's water system and to eliminate lead pipes."

Investigations by the ACLU and nationally recognized drinking water expert Marc Edwards at Virginia Tech University have pointed to failures in testing and enforcement of federal drinking water standards by the Michigan Department of Environmental Quality. An MDEQ spokesman reportedly attacked Virginia Tech's results and complained about the "near-hysteria" over Flint's water supply. The Virginia Tech researcher documented what he called "mistakes and deception" involving the MDEQ's handling of Flint's drinking water problem.

"Along with ensuring Flint residents aren't drinking lead, we need for the governor to ensure that the public gets answers to what happened and why we ended up with a public health crisis in Flint," said Holtz. "That will require an independent investigation. If that's something Governor Snyder is unwilling to do we need federal authorities to determine to what extent, if any, state officials who are responsible for implementing federal drinking water standards are accountable for the public health crisis in Flint."

The Greater Flint Health Coalition, a group of health professionals in the Flint community, has concluded that Flint's drinking water is unsafe because of elevated lead blood levels. The city of Flint began using the Flint River as a water source in April 2014 following a decision made by emergency manager Darnell Earley.

Centers for Disease Control and Prevention studies show that lead in drinking water can cause serious health problems and that the greatest risk of lead exposure is to infants, young children and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children.

##

From: Murray, David (GOV)
Sent: Monday, October 05, 2015 10:33 AM
To: 'Ronald Fonger'
Cc: Wurfel, Sara (GOV)
Subject: RE: national guard water tanker suggestion

Ron,

The governor's comprehensive action plan is in effect to ensure Flint residents have access to safe, clean water. State agencies and the governor's office continue to work in Flint with local leaders and organizations on a variety of approaches to give Flint residents accurate information about their homes and health, and provide assistance where needed.

Any requests for the guard would start with the FEMA local emergency manager. That local person already is working closely with the Michigan State Police, the United Way and other community groups to provide city residents with assistance as we help city leaders with their water infrastructure challenges.

Dave

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, October 05, 2015 9:37 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: national guard water tanker suggestion

Sara:
We are seeking comment for a story based on the request to the governor by Genesee County Clerk-Register and former state senator John Gleason to consider using National Guard water tankers in response to providing water to Flint residents.
I've attached a letter from Gleason to Gov. Snyder from September 2014 on this subject.
Mr. Gleason said last week that's he's spoken in recent days to state Sens. Horn and Ananich in an new effort to get Flint access to the National Guard water tankers.
Thanks in advance for your help.

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Macaluso, Nora <nmacaluso@bna.com>
Sent: Monday, October 05, 2015 12:18 PM
To: Wurfel, Sara (GOV)
Subject: RE: News Release: Flint Water Crisis Action, Probe Urged

So – that sounds like no plans for an investigation (at this point)?

>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Nora Macaluso
Staff Correspondent

Bloomberg BNA

Direct/ PPI
nmacaluso@bna.com

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, October 05, 2015 12:15 PM
To: Macaluso, Nora <nmacaluso@bna.com>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: News Release: Flint Water Crisis Action, Probe Urged

Nora --

Would say that we believe protecting public health is paramount and safe, clean, accessible drinking water is essential. The Governor and Administration, through both DEQ and the MI Dept of Health & Human Services, have outlined a collaborative, comprehensive action plan to help ensure just that as well as public confidence, and that we're all working together across local, state and federal levels to bring all resources and ideas to bear.

Thanks and best,
SW

From: Macaluso, Nora [mailto:nmacaluso@bna.com]
Sent: Monday, October 05, 2015 9:41 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
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Good morning. Do you have any comment on this request for an investigation? Is the governor looking into how the DEQ missed the problem? Writing today, deadline 4 p.m. Though of course this is an ongoing story.

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Nora Macaluso
Staff Correspondent

Bloomberg BNA

Direct/Mobile PPI
nmacaluso@bna.com

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Sent: Friday, October 02, 2015 4:11 PM
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Sierra Club Calls For Urgent Action on Snyder Water Plan, Probe of Michigan Department of Environmental Quality

FOR IMMEDIATE RELEASE

Friday, October 2, 2015

Media Contact: David Holtz, david@davidholtz.org/313-300-4454

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Sierra Club Michigan Director **Gail Philbin** said only independent testing of Flint's water for lead will be credible because of questions raised regarding the city and MDEQ's handling of past test results.

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Investigations by the ACLU and nationally recognized drinking water expert Marc Edwards at Virginia Tech University have pointed to failures in testing and enforcement of federal drinking water standards by the Michigan Department of Environmental Quality. An MDEQ spokesman reportedly attacked Virginia Tech's results and complained about the "near-hysteria" over Flint's water supply. The Virginia Tech researcher documented what he called "mistakes and deception" involving the MDEQ's handling of Flint's drinking water problem.

"Along with ensuring Flint residents aren't drinking lead, we need for the governor to ensure that the public gets answers to what happened and why we ended up with a public health crisis in Flint," said Holtz. "That will require an independent investigation. If that's something Governor Snyder is unwilling to do we need federal authorities to determine to what extent, if any, state officials who are responsible for implementing federal drinking water standards are accountable for the public health crisis in Flint."

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Centers for Disease Control and Prevention studies show that lead in drinking water can cause serious health problems and that the greatest risk of lead exposure is to infants, young children and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children.

##

From: Ronald Fonger <RFONGER1@mlive.com>
Sent: Monday, October 05, 2015 2:46 PM
To: Wurfel, Sara (GOV)
Cc: Murray, David (GOV)
Subject: water filter distribution

Sara:
I'm expecting to write a story about the efforts to distribute water filters that have so far come into Flint from several sources.
Are the state-funded filters being distributed through the Genesee County Health Department and United Way or through state offices such as the Department of Human Services, or both?
Have the state-funded filters begun to arrive in Flint and does your office want to comment on the efforts to distribute the filters so far?
You may have heard that the initial distribution was expanded Saturday to include all residents because there were far more filters than low income families that qualified who turned out to request one.
Thanks for your help.
Call is it's easier

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Kaffer, Nancy <nkaffer@freepress.com>
Sent: Monday, October 05, 2015 2:49 PM
To: Wurfel, Sara (GOV); Wurfel, Brad (DEQ)
Cc: Wisely, John
Subject: FW: Follow-up questions

Importance: High

Hi Sara – sent these last week and got no response. Figured some of these are MDEQ questions, so I'm adding Brad onto the list, here.

ASAP would be great.

Thanks!

N

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Kaffer, Nancy
Sent: Friday, October 02, 2015 12:06 PM
To: 'Wurfel, Sara (GOV)' <Wurfels@michigan.gov>
Subject: Follow-up questions
Importance: High

- Reviewing my notes, I'm not sure I got a definitive answer from Wyant about corrosion control at the Flint water treatment plant.
  Was corrosion control in use? I'd like a simple yes or no, here – if no, obviously, why not – if yes, what was it, and why was – if any – what sounds like a lesser degree of corrosion control being used? I would like the names of the specific technologies/chemicals that were in use in the past, if in fact corrosion control was being used at the Flint plant, and the specific technologies that will be used going forward.
- Was the MDEQ unaware that there were aging lead service lines in Flint, and that those would increase the lead risk? Were the Flint water treatment folks? Why was this not taken into account in developing the water treatment plan?
- Wyant said that "two consecutive back to back tests" showed there was a problem; when were those tests performed and when were the results available?

Obviously I would like to use this information in a piece we'll have ready to go at 1:30p so ASAP would be great.

Nancy Kaffer
Columnist

Detroit Free Press
www.freep.com/abetternmichigan
313-222-6585
@nancykaffer, @abettermi

From: Kyle Melinn <melinnky@gmail.com>
Sent: Monday, October 05, 2015 4:46 PM
To: Wurfel, Sara (GOV)
Subject: What Ananich said
Attachments: Flint.doc

Sara -

I've attached what I've written on Ananich's comments on the podcast. Let me know how you want to respond. Appreciate it!

Kyle

Ananich: Feels Like State Is Dragging Its Feet Because Flint Is Poor

Senate Minority Leader Jim **[ANANICH]** (D-Flint) said he doesn't know why state officials are not aggressively pushing to hook Flint's municipal water supply back to the Detroit Water and Sewerage Department (DWSD), but it feels like the city's impoverished residents is a factor.

State and local officials said Friday they would be testing more Flint water and sinking $1 million more in filters to address higher lead levels in the water coming from the city's relatively new water source -- the Flint River (See "State Plan For Flint Water Includes More Testing, $1 Million For Filters," 10/2/15).

http://www.mirsnews.com/capsule.php?gid=4683#44579

Previously, Flint residents had been receiving their water from DWSD from 1968 to 2014 until the Flint emergency manager, at the urging of many community leaders, made the switch as a cost saving measure until a pipeline carrying "raw" water from Port Huron was finished.

Ananich was asked he believes this type of situation would still be going on if questions were raised about the quality of water in West Bloomfield or Birmingham -- two of the state's more affluent areas.

"No, I think it would have been resolved a long time ago," Ananich said. "There's this saying about people in Flint that we're resilient.

"But at what point in time is it acceptable that we have to be resilient over things that in 21st Century in the most advanced country in the world surrounded by the freshest water in the world that we have questions about whether we are poisoning our kids? It's just unacceptable to me."

Asked to respond to whether efforts to move Flint back to the DWSD water -- which didn't react to the lead in Flint's pipes, causing the elevated lead readings -- was based on Flint being a poor city, Ananich said he didn't know, but it feels like it.

"I can tell you how that it feels. 'These are poor folks. Well, we'll get to it when we get to it,'" he said. "The outrage needs to come from everybody. The citizens are outraged and I think they need to be more so."

On the logistics of switching Flint back to DWSD water, Ananich said it's "absolutely possible." From talking to Detroit officials, Ananich was told it could be done on either the "short-term" or "long-term" basis.

Genesee County still gets its water from DWSD so it would be a matter of buying more of it. However, Ananich couldn't speak in detail about how a switch would work, but stressed this is why an emergency coordinator needs to be activated as if the city had been hit by a tornado.

Every day that goes by without the water getting switched it another day children in Flint will be exposed to more lead in their water, leading to future health issues, he said.

"The lack of urgency that I've received from many departments of state government is alarming and unfortunate. It's not something I'm going to put up with," he said.

"The quicker the city and state moves toward making this happen, the quicker we can have a secure safe drinking water source again. The longer people delay, it's compounding the problem."

From: Ronald Fonger <RFONGER1@mlive.com>
Sent: Tuesday, October 06, 2015 9:08 AM
To: Wurfel, Sara (GOV)
Subject: governors team

Sara:
Can you fill me in on what's happening in Flint today?
WJRT is reporting **"Members of the state's team handling the water crisis will be in Flint on Tuesday to work with local leaders on how to move forward."**
Thanks for your help

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Stephanie Parkinson <sparkinson@sbgtv.com>
Sent: Tuesday, October 06, 2015 2:22 PM
To: Wurfel, Sara (GOV)
Subject: Re: PHONE MESSAGE: Stephanie Parkinson - NBC 25 Flint

Thank you.

Thanks!

Stephanie Parkinson
Anchor/Reporter
NBC25|FOX66
Flint, Michigan
Newsroom: 810.687.9600
Cell: PPI
@StephaniePNews

Sent from my iPhone

On Oct 6, 2015, at 11:45 AM, "Wurfel, Sara (GOV)" <Wurfels@michigan.gov> wrote:

> Greetings, Stephanie –
>
> My understanding is that plan is to also offer and provide filter replacements when needed. Team is tracking type of filter and contact information to help ensure.
>
> Having Jennifer Eisner from the MI Dept of Health & Human Services get in touch with you asap to confirm and walk through details. Just in case, she's at 517-230-9804.
>
> ---
>
> **From:** Ruestman, Alexa (GOV)
> **Sent:** Tuesday, October 06, 2015 11:33 AM
> **To:** Wurfel, Sara (GOV) <Wurfels@michigan.gov>
> **Cc:** Agen, Jarrod (GOV) <AgenJ@michigan.gov>
> **Subject:** PHONE MESSAGE: Stephanie Parkinson - NBC 25 Flint
>
> Name: Stephanie Parkinson
> Outlet: NBC 25 Flint
> Email: sparkinson@sbgtv.com
> Phone: PPI
> Re: Flint Water, filter giveaway
> "We have been told that the filters given out in Flint are good for 100 gallons, what are people supposed to do once they surpass that limit?"
> Deadline: this afternoon
>
> Alexa Ruestman
> Communications Intern
> Executive Office of the Governor
> RuestmanA@michigan.gov

From: Davey, Monica <davey@nytimes.com>
Sent: Wednesday, October 07, 2015 9:48 AM
To: Wurfel, Sara (GOV)
Subject: Re: Flint water story -- filing today

Sara:
Just making sure you received this.
And wondering, given all, whether someone from the state -- the gov or someone -- could talk to me about what's happened on this.
I want to be sure to get the state's view in here. And I feel like the city is pointing to the state as responsible since the emergency manager was in charge when the choice was made to go to the river.
You have time for a call? 312 543 4883.
Monica

On Wed, Oct 7, 2015 at 6:42 AM, Davey, Monica <davey@nytimes.com> wrote:
Sara:

I'm doing a piece for tomorrow's paper about the Flint lead situation.

A few questions for you:
1) I listened to the governor's briefing last week and I believe he said this: "We all have a concern about Flint's drinking water in terms of what we're seeing on lead."
Others have quoted it differently, this way: "We all have a concern about Flint's drinking water in terms IN what we're seeing on lead."
Can you help me know which is accurate?

2) Any new developments from the state in terms of a return to Detroit or some other plan?

3)
Do these sentences seem factually accurate to you:
State officials last week called for the testing of drinking water at all Flint public schools and expedited efforts to replace lead service lines, and promised $1 million to provide filters for residents.

Also separately: And blood tests released by a local pediatrician – and corroborated last week by state officials analyzing their own testing – showed an increase in elevated levels of lead in children in some Flint neighborhoods since 2014 when the city began drawing water from the river.

4) The city said the decision to go to Flint River water was made under the state appointed emergency manager. Does the governor want to comment on the EM's role in this? And does he want to comment on the possibility of state funds for a return to Detroit water?

Thanks
Monica

From: Davey, Monica <davey@nytimes.com>
Sent: Wednesday, October 07, 2015 11:48 AM
To: Wurfel, Sara (GOV)
Subject: Re: Flint water story -- filing today

Sara:
Can you let me know if you are receiving my emails?
Should I send to Dave Murray instead?
Can you just give me an update on whether you are getting my notes?
Monica

On Wed, Oct 7, 2015 at 8:48 AM, Davey, Monica <davey@nytimes.com> wrote:
Sara:
Just making sure you received this.
And wondering, given all, whether someone from the state -- the gov or someone -- could talk to me about what's happened on this.
I want to be sure to get the state's view in here. And I feel like the city is pointing to the state as responsible since the emergency manager was in charge when the choice was made to go to the river.
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Thanks
Monica

From: Davey, Monica <davey@nytimes.com>
Sent: Wednesday, October 07, 2015 6:27 PM
To: Wurfel, Sara (GOV)
Subject: Re: FW: Snyder Media Advisory for Thursday, Oct. 8

Thank you.
Is there anything at all I can say beyond:

> Officials were meeting in Flint on Wednesday afternoon and talks were underway, officials said, for additional solutions that could be announced as early as this week.
>
> can I say as early as Thursday?
>
> Can I say that the governor has called a press conference for thursday?
>
> Anything at all?

On Wed, Oct 7, 2015 at 5:19 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

FYI

From: GOV Newsroom [mailto:govnewsroom@govsubscriptions.michigan.gov]
Sent: Wednesday, October 07, 2015 6:13 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Snyder Media Advisory for Thursday, Oct. 8

Wednesday, Oct. 7, 2015
Contact: Sara Wurfel or Dave Murray
Office: 517-335-6397

Editor's Note: This advisory is for media planning purposes only and not for publication.

Thursday, Oct. 8 at 10 a.m.

Gov. Rick Snyder will make an announcement regarding the Flint water system. He will be joined by Flint Mayor Dayne Walling, Director of Environmental Quality, Dan Wyant, Director of the Department of Health and Human Services, Nick Lyon, Dr. Eden Wells, Chief Medical Executive at DHHS, and Ridgway White of the Charles Stewart Mott Foundation.

A livestream option is also available at www.michigan.gov/snyderlive. If you wish to embed the event please visit http://new.livestream.com/snyderlive for more information.

Media must present valid press credentials on site.

Location:
Mott Foundation/Commerce Center Building – Conference Center, Ground Floor
519 S. Saginaw St.
Flint, MI

Thursday, Oct. 8 at 7 p.m.
Snyder will offer remarks at the Celebration of Life Gala supporting Magen David Adom (Israel's national 911 and emergency services).

Media must present valid press credentials on site.

Location:
Adat Shalom Synagogue
29901 Middlebelt Rd.
Farmington Hills, MI

#####

STAY CONNECTED:

This email was sent to wurfels@michigan.gov on behalf of: The Executive Office of the Governor · 111 South Capitol Avenue · Lansing, MI 48909 · 517-335-7858

From: Davey, Monica <davey@nytimes.com>
Sent: Wednesday, October 07, 2015 6:47 PM
To: Wurfel, Sara (GOV); monicaruthdavey@gmail.com
Subject: Fwd: FW: Snyder Media Advisory for Thursday, Oct. 8

Resending because I still am getting none of your email to my nyt account.
Is there anything at all I can say beyond:
Officials were meeting in Flint on Wednesday afternoon and talks were underway, officials said, for additional solutions that could be announced as early as this week.

-can I say as early as Thursday?

-Can I say that the governor has called a press conference for thursday?

-Anything at all?

On Wed, Oct 7, 2015 at 5:27 PM, Davey, Monica <davey@nytimes.com> wrote:
Thank you.
Is there anything at all I can say beyond:

> Officials were meeting in Flint on Wednesday afternoon and talks were underway, officials said, for additional solutions that could be announced as early as this week.
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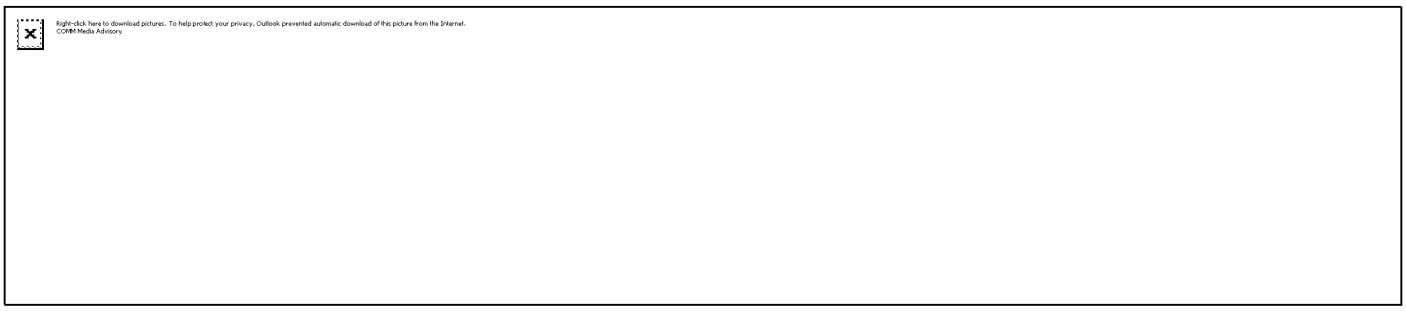
>
> Anything at all?

On Wed, Oct 7, 2015 at 5:19 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

FYI

From: GOV Newsroom [mailto:govnewsroom@govsubscriptions.michigan.gov]
Sent: Wednesday, October 07, 2015 6:13 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Snyder Media Advisory for Thursday, Oct. 8



Wednesday, Oct. 7, 2015
Contact: Sara Wurfel or Dave Murray
Office: 517-335-6397

Editor's Note: This advisory is for media planning purposes only and not for publication.

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STAY CONNECTED:

This email was sent to wurfels@michigan.gov on behalf of: The Executive Office of the Governor · 111 South Capitol Avenue · Lansing, MI 48909 517-335-7858

From: Hicks, Mark <MHicks@detroitnews.com>
Sent: Wednesday, October 07, 2015 7:08 PM
To: Wurfel, Sara (GOV); Murray, David (GOV)
Subject: Flint water committee

Hello. This is Mark Hicks, a reporter at The Detroit News. I am trying to reach representatives for Gov. Snyder's office tonight regarding a recommendation from a committee of experts on Wednesday to reconnect Flint to Detroit's water system to improve the drinking water quality. Has the governor's office received this recommendation, and does it impact the announcement tomorrow regarding Flint's water system?

Please feel free to let me know if you or another representative can reach me before 8:30 p.m. EST tonight for a brief phone interview or statement regarding this recommendation. I realize this is late and short notice after-hours, and some information might not be immediately accessible, but any help provided will be greatly appreciated and better inform our readers. Thank you for your time.

Mark Hicks
Reporter, The Detroit News
Phone: (313) 222-2117
E-mail: mhicks@detroitnews.com

From: Davey, Monica <davey@nytimes.com>
Sent: Wednesday, October 07, 2015 7:08 PM
To: Wurfel, Sara (GOV)
Subject: Re: FW: Snyder Media Advisory for Thursday, Oct. 8

10-4

On Wed, Oct 7, 2015 at 6:06 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

You can say as early as Thursday. Would prefer that the other pieces not be used.

Thanks much,

SW

From: Davey, Monica [mailto:davey@nytimes.com]
Sent: Wednesday, October 07, 2015 6:27 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Re: FW: Snyder Media Advisory for Thursday, Oct. 8

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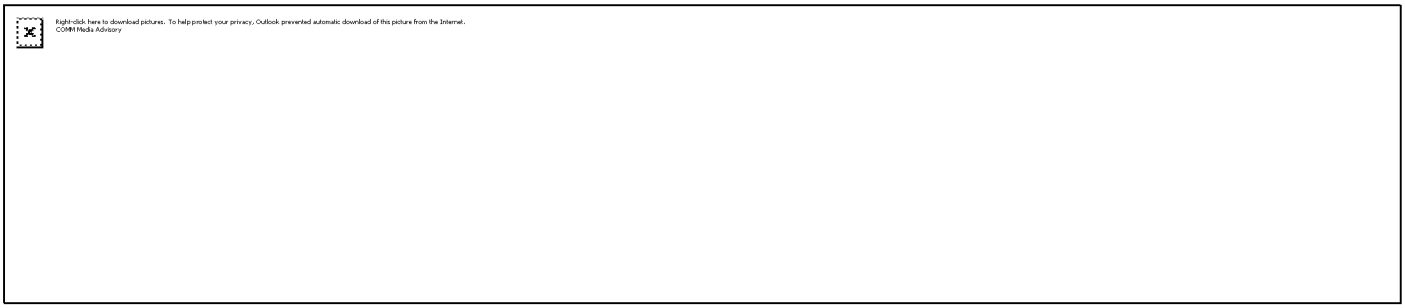
Subject: Snyder Media Advisory for Thursday, Oct. 8



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From: Hicks, Mark <MHicks@detroitnews.com>
Sent: Wednesday, October 07, 2015 7:57 PM
To: Wurfel, Sara (GOV)
Subject: RE: Flint water committee

Thanks for sending this so quickly. Just to follow up, based on the advisory sent: we cannot mention that an announcement on the water situation is expected tomorrow?

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Wednesday, October 07, 2015 7:24 PM
To: Hicks, Mark <MHicks@detroitnews.com>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: Flint water committee

Hi there Mark –

Happy to help. What I'd say is that this is an option we're helping thoroughly review and consider with the city, and the technical advisory committee's work is much appreciated in this matter. We're also focused on working hard in collaboration with all and implementing the key action steps outlined on Oct. 2 to help protect public health and ensure safe, accessible drinking water for Flint residents.

As you noted, we have slated a time tomorrow morning for the Governor and administration with city and community leaders to provide an update on Flint water so hoping you got those details. Stay tuned.

Thanks and best,
SW

From: Hicks, Mark [mailto:MHicks@detroitnews.com]
Sent: Wednesday, October 07, 2015 7:08 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Flint water committee

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Mark Hicks
Reporter, The Detroit News
Phone: (313) 222-2117
E-mail: mhicks@detroitnews.com

From: Roberto Acosta <RACOSTA1@mlive.com>
Sent: Wednesday, October 07, 2015 8:03 PM
To: Wurfel, Sara (GOV)
Subject: Re: Technical Advisory Committee, water switch & Q on tomorrow

Sara,

Thank you so much for the response.

Roberto

On Oct 7, 2015, at 7:40 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

> Greetings, Ron and Roberto –
>
> Sorry for delay. Been on conference calls and meetings until just now.
>
> Happy to help. I think Dave got a chance to cover some of this with you already, but just in case.
>
> This is an option that we're helping thoroughly review and consider with the city, and the technical advisory committee's work is much appreciated in this matter. We're also focused on working hard in collaboration with all and implementing the key action steps outlined on Oct. 2 to help protect public health and ensure safe, accessible drinking water for Flint residents.
>
> As you noted, we have slated a time tomorrow morning for the Governor and administration with city and community leaders to provide an update on Flint water. Stay tuned.
>
> Thanks so much and looking forward to seeing you tomorrow. Just let me know if there's something you may need in the interim.
>
> Best regards,
> SW
>
> **Sara Wurfel, APR**
> Press Secretary | Executive Office of Governor Rick Snyder
> wurfels@michigan.gov
> 517-335-6397, office
> PPI mobile
> Twitter:@SaraLW

From: Danziger, Rona <rona.danziger@cbsradio.com>
Sent: Thursday, October 08, 2015 12:19 PM
To: Wurfel, Sara (GOV); Biehl, Laura (GOV)
Cc: Huber, Zahra; Davidek, Robert P; Mundie, Robert R
Subject: Looking for comment
Attachments: Prof Marc Edwards uncut 10-8-2015.mp3

WWJ's Zahra Huber spoke with Professor Marc Edwards from Virginia Tech regarding his thoughts on the Flint Water situation as the lead researcher on the project and he had very harsh words about how the Flint Water situation had been handled. He said federal laws had been broken when the switch was made away from the Detroit River to the Flint River and that data was manipulated to show that Flint water was safe when it was not. Can we get a comment from the Governor on this interview? I've attached the audio, uncut, for you to listen to for comment.

Let us know. Thanks!

Rona Danziger
Senior Managing Editor |WWJ Newsradio 950|Michigan News Network
Direct: 248-327-2820|Cell: PPI |Newsroom: 248-945-9950
26455 American Drive | Southfield, MI 48034
Rona.danziger@cbsradio.com
www.cbsdetroit.com

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From: Jonathan Oosting <joosting@mlive.com>
Sent: Thursday, October 08, 2015 3:12 PM
To: Wurfel, Sara (GOV)
Subject: Re: State funding for Flint

Yep, I just talked with Kurt. Thank you!

Jonathan Oosting | MLive Media Group | 313.319.8559 | joosting@mlive.com

---

From: <Wurfel>, "Sara (GOV)" <Wurfels@michigan.gov>
Date: Thursday, October 8, 2015 at 3:11 PM
To: Conde Nast <JOosting@MLive.com>, "Murray, David (GOV)" <MurrayD1@michigan.gov>
Subject: RE: State funding for Flint

Hi there Jonathan,

Sorry for delay. Been in back-to-back meetings since getting back from Flint.

Happy to walk you through this, but sounds like Kurt already did? Just let me know.

Thanks much,
SW

From: Jonathan Oosting [mailto:joosting@mlive.com]
Sent: Thursday, October 08, 2015 12:30 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: State funding for Flint

Hi Sara and Dave

Is the governor asking for a total of $6 million from the Legislature (for water switch) or $10 million (plus other action plan costs)? I was a little confused by descriptions in press conference and release.

Jonathan Oosting | MLive Media Group | 313.319.8559 | joosting@mlive.com

From: Danziger, Rona <rona.danziger@cbsradio.com>
Sent: Thursday, October 08, 2015 3:16 PM
To: Wurfel, Sara (GOV); Biehl, Laura (GOV)
Cc: Huber, Zahra; Davidek, Robert P; Mundie, Robert R
Subject: RE: Looking for comment

OK. Thanks.

From: Wurfel, Sara (GOV) [mailto:WurfelS@michigan.gov]
Sent: Thursday, October 08, 2015 1:56 PM
To: Danziger, Rona; Biehl, Laura (GOV)
Cc: Huber, Zahra; Davidek, Robert P; Mundie, Robert R
Subject: RE: Looking for comment

Greetings, Rona --

Just got back from Flint. Various versions of this Q came up during today's presser. I would recommend you take a listen. http://www.michigan.gov/snyder/0,4668,7-277-60112-268720--,00.html

State was following all nationally set standards and protocols for testing, and has some of the most dedicated and professional drinking water and public health experts in the country working off the best information available at the time. We have acted quickly and took detailed concrete actions steps as new information and data came in.

From: Danziger, Rona [mailto:rona.danziger@cbsradio.com]
Sent: Thursday, October 08, 2015 12:19 PM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>
Cc: Huber, Zahra <zahra.huber@cbsradio.com>; Davidek, Robert P <rpdavidek@cbs.com>; Mundie, Robert R <rrmundie@cbs.com>
Subject: Looking for comment

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Let us know. Thanks!

Rona Danziger
Senior Managing Editor |WWJ Newsradio 950|Michigan News Network
Direct: 248-827-2820|Cell: PPI |Newsroom: 248-945-9950
26455 American Drive | Southfield, MI 48034
Rona.danziger@cbsradio.com
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From: Weiss, Kurt (DTMB)
Sent: Thursday, October 08, 2015 3:56 PM
To: Wurfel, Sara (GOV); Eisner, Jennifer (DHHS)
Subject: FW: Flint Water

Eggert is all set. I called him and he didn't answer, so just handled via e-mail.

Kurt Weiss
State Budget Office
517-335-0050

From: Eggert, David [mailto:DEggert@ap.org]
Sent: Thursday, October 08, 2015 3:55 PM
To: Weiss, Kurt (DTMB)
Subject: RE: Flint Water

Ok thx

From: Weiss, Kurt (DTMB) [mailto:WeissK1@michigan.gov]
Sent: Thursday, October 08, 2015 3:21 PM
To: Eggert, David
Subject: Flint Water

Hi Dave,

Jennifer passed your note along to me so I wanted to get back to clarify for you. The supplemental request will include $6 million for reconnection to Detroit, and then almost another $3.5 million for filters, testing, and additional agency support…so the total supplemental request will be for $9.35 million. The confusion is coming from the fact that we already announced $1 million in money from filters last week and that money does not require a supplemental appropriation. The actual total commitment from the state is $10.6 million…but some of the money won't require a supplemental appropriation. Call me if you have questions. Thanks!

Kurt Weiss
State Budget Office
517-335-0050

From: Eggert, David [mailto:DEggert@ap.org]
Sent: Thursday, October 08, 2015 2:18 PM
To: Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>
Subject: $3.5M or $4M

Jennifer,

I thought I heard Snyder mention spending $4M separately from the $6M to switch back. News release says $3.5M. Can you clarify? Thx.

AP

ASSOCIATED PRESS

David Eggert
State government reporter

215 S. Washington Square, Suite 170
Lansing, MI 48933
T 517-482-8011
M PPI

deggert@ap.org
www.ap.org

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[IP_US_DISC]

msk dccc60c6d2c3a6438f0cf467d9a4938

From: Ronald Fonger <RFONGER1@mlive.com>
Sent: Tuesday, October 13, 2015 10:12 AM
To: Wurfel, Sara (GOV)
Subject: FW: MDP Statement: Those Responsible for Flint Water Crisis Must Be Held Accountable

Sara:
Would your office want to comment on this call from state Dems for the governor to fire Darnell Earley from his position with the Detroit schools?
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: MDP Press [mailto:press@michigandems.com]
Sent: Tuesday, October 13, 2015 8:52 AM
To: MDP Press
Subject: MDP Statement: Those Responsible for Flint Water Crisis Must Be Held Accountable

FOR IMMEDIATE RELEASE
News from the Michigan Democratic Party

October 13, 2015
Contact: Paul Kanan, 517.371.5410; pkanan@michigandems.com

MDP Statement: Those Responsible for Flint Water Crisis Must Be Held Accountable

LANSING – The Michigan Democratic Party issued the following statement today, on behalf of Party Chair Brandon Dillon, demanding those responsible for the Flint water crisis be held accountable and calling on Governor Snyder to immediately fire former Flint EM, and current EM for Detroit Public Schools, Darnell Earley:

"Accountability in government means answering to the people you serve, not just cleaning up your mistakes using their money," said Brandon Dillon, Chair of the Michigan Democratic Party.

"This catastrophe began with the governor's appointed emergency manager, and as much as Governor Snyder would like to pretend, this is not a matter of negotiating at the boardroom table. This is a situation where you pay for your mistakes and put those responsible on the chopping block.

"That is why we are calling for the immediate firing of the governor's handpicked emergency manager for Flint, Darnell Earley. Earley was in charge when the decision was made to switch the city to unsafe drinking water. If poisoning

children wasn't bad enough, after Earley failed the citizens of Flint, the governor inexplicably rewarded him with another appointment – emergency manager for Detroit Public Schools – where he is now responsible for the education of nearly 50,000 students.

"The children of Flint and Detroit are being robbed of what most of us take for granted – safe drinking water and a quality education. The wholesale theft of our children's futures must end now. That begins with the removal from power all those that would sacrifice the future of a single child in Michigan – let alone thousands – in order to add a few extra dollars to the bottom line."

###

From: Kyle Melinn <melinnky@gmail.com>
Sent: Tuesday, October 13, 2015 11:11 AM
To: Wurfel, Sara (GOV)
Subject: Fwd: MDP Statement: Those Responsible for Flint Water Crisis Must Be Held Accountable

Good morning, Sara. Have you seen this, yet. What to let you react to it if you like. Take care.

Kyle

---------- Forwarded message ----------
From: **MDP Press** <press@michigandems.com>
Date: Tue, Oct 13, 2015 at 8:52 AM
Subject: MDP Statement: Those Responsible for Flint Water Crisis Must Be Held Accountable
To: MDP Press <press@michigandems.com>

FOR IMMEDIATE RELEASE
News from the Michigan Democratic Party

October 13, 2015
Contact: Paul Kanan, 517.371.5410; pkanan@michigandems.com

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that would sacrifice the future of a single child in Michigan – let alone thousands – in order to add a few extra dollars to the bottom line."

###

From: Jake Neher <jaken@mprn.org>
Sent: Wednesday, October 21, 2015 2:53 PM
To: Murray, David (GOV); Wurfel, Sara (GOV)
Subject: Re: NEWS RELEASE: Gov. Rick Snyder announces Flint Water Task Force to review state, federal and municipal actions, offer recommendations

Is there someone who could talk on tape about this? Hoping to get a phone interview in before 3:30, if possible. Thanks.

Jake Neher
State Capitol Reporter
Michigan Public Radio Network
jaken@mprn.org
PPI [cell]
819 N. Washington Ave.
Lansing, Michigan 48906
>>> "GOV Newsroom" <govnewsroom@govsubscriptions.michigan.gov> 10/21/15 2:07 PM >>>
COMM News Release

Contacts: Sara Wurfel <wurfels@michigan.gov> or Dave Murray <murrayd1@michigan.gov>517-335-6397

*FOR IMMEDIATE RELEASE
*Wednesday, Oct. 21, 2015

*Gov. Rick Snyder announces Flint Water Task Force to review state, federal and municipal actions, offer recommendations [http://www.michigan.gov/snyder/0,4668,7-277-57577_57657-367761--,00.html] *

"Experts in public health, water management, environmental protection to focus on steps to protect residents"

LANSING, Mich. – Gov. Rick Snyder today announced the creation of an independent advisory task force charged with reviewing actions regarding water use and testing in Flint and offer recommendations for future guidelines to protect the health and safety of all state residents.

Task force members include experts in public health and medicine, water management, and environmental protection from both sides of the aisle, and will be co-chaired by Ken Sikkema of Public Sector Consultants and Chris Kolb, of the Michigan Environmental Council. Also serving will be Dr. Matthew Davis of the University of Michigan Health System, Eric Rothstein, of the Galardi Rothstein Group and Dr. Lawrence Reynolds of Mott Children's Health Center in Flint.

"Transitioning back to the Detroit Water and Sewerage Department-Great Lakes Water Authority is a good first step to protecting public health in Flint, but it's not the last step," Snyder said. "Bringing in outside experts to evaluate our actions and help monitor and advise on potential changes to law, procedures and practices will be key to continuing work on the comprehensive action plan and ensuring safe drinking water for all the residents in Flint and all of Michigan."

Snyder said the administration will fully cooperate with task force members, saying he wants an unbiased report focusing on steps taken in the past and recommendations that could improve practices to ensure all residents have access to safe, clean water.

Ken Sikkema is a senior policy fellow at Public Sector Consultants, where he specializes in public finance, environment, and energy policy.
Prior to joining the firm, Sikkema served in both the Michigan House and Senate, culminating with four years as Senate majority leader. He has also served as both an adjunct and visiting professor at Grand Valley State University.

Chris Kolb is president of the Michigan Environmental Council, a statewide coalition of 70 environmental, public health and faith-based nonprofit groups. Before joining the MEC, Kolb represented Ann Arbor in the state House for six years and served six years on the Ann Arbor City Council. He has been president of the MEC for six years.

Matthew Davis, M.D., M.A.P.P., is professor of pediatrics and internal medicine at the University of Michigan Health System and professor of public policy at the Gerald R. Ford School at the University of Michigan, having joined the faculty in 2000. Davis also is a professor of health management and policy at the School of Public Health. He previously served as the chief medical executive of the Michigan Department of Community Health/Department of Health and Human Services.

Eric Rothstein is a national water issues consultant and principal at the Galardi Rothstein Group. He served as an independent advisor on the creation of the Great Lakes Water Authority. Rothstein also has served as Jefferson County, Alabama's rate consultant and municipal adviser for litigation related to the county's bankruptcy and issuance of $1.7 billion in sewer warrants and led strategic financial planning30 years of experience in water, wastewater and stormwater utility finance and rate-making assessments.

Lawrence Reynolds, M.D., is a pediatrician in Flint who serves as president of the Mott Children's Health Center. He received his medical degree from Howard University College of Medicine and has been in practice for 36 years. He has served as president of the Genesee County Medical Society and the Michigan Chapter of the American Academy of

Pediatrics. He has been honored for his humanitarian and advocacy efforts on behalf of children from the Community Foundation of Greater Flint.

Snyder has said reconnecting with the authority is a critical step to resolving water quality issues and addressing related health concerns.
It will not immediately resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control.

To best protect public health, state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure. The Michigan Departments of Environmental Quality and Health and Human Services are continuing to provide free water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

####

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This email was sent to jaken@mprn.org on behalf of: The Executive Office of the Governor · 111 South Capitol Avenue · Lansing, MI 48909 ·
517-335-7858

From: Wurfel, Brad (DEQ)
Sent: Wednesday, October 21, 2015 3:05 PM
To: Kaffer, Nancy
Cc: Murray, David (GOV); Wurfel, Sara (GOV)
Subject: RE: Flint schools test data

Nancy,
Check out www.mi.gov/flintwater for all the latest information on the Flint water situation.
http://mi.gov/deq/0,4561,7-135-3313_3675_73946---,00.html

The initial schools screens are here:
http://mi.gov/documents/deq/Flint_Community_Schools_Testing_Results__Initial_Screen_502382_7.pdf

---

From: Kaffer, Nancy [mailto:nkaffer@freepress.com]
Sent: Wednesday, October 21, 2015 1:43 PM
To: Wurfel, Brad (DEQ)
Cc: Tanner, Kristi
Subject: Flint schools test data

Hey Brad – still looking for that lead test data for Flint schools. Advise on ETA?

N

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Ronald Fonger <RFONGER1@mlive.com>
Sent: Thursday, October 22, 2015 10:01 AM
To: Wurfel, Sara (GOV)
Subject: RE: state money for detroit water

OK thanks. I will wait to hear from you.

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Thursday, October 22, 2015 10:00 AM
To: Ronald Fonger
Subject: RE: state money for detroit water

Ron – for your background only right now, this doesn't match my understanding of how this was supposed to work and happen. Checking into now and will get back to you asap.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Thursday, October 22, 2015 9:38 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: state money for detroit water

Sara:
I was at a City Council meeting last night when Flint City Administrator Natasha Henderson said the state has only wired Flint $2 million of the $6 million approved by the state Legislature.
She said the city has been told it will receive an additional $2 million in January and another $2 million in April.
Henderson said she's asked that the money be sent immediately because the city was required to pay Detroit the entire $12 million upfront, before the water was reconnected, and its water and sewer fund balance has dropped significantly as a result.
Several council members also spoke about this, and Council President Josh Freeman called the payment plant "beyond ridiculous" given the city's financial position.
Is there someone who can talk to us about this?
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Ronald Fonger <RFONGER1@mlive.com>
Sent: Thursday, October 22, 2015 12:20 PM
To: Wurfel, Sara (GOV)
Subject: RE: state money for detroit water

Yes I'll wait.
Appreciate the update

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Thursday, October 22, 2015 12:18 PM
To: Ronald Fonger
Subject: RE: state money for detroit water

We're close to having details tracked down. Hoping you can hold off another ½ hour or so. Should have ironed out by then.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Thursday, October 22, 2015 11:56 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: state money for detroit water

Hi Sara. Any ETA? I need to write something pretty soon but definitely prefer to include your perspective on this.

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Thursday, October 22, 2015 10:00 AM
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MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Ronald Fonger <RFONGER1@mlive.com>
Sent: Thursday, October 22, 2015 2:01 PM
To: Wurfel, Sara (GOV)
Subject: RE: state money for detroit water

Ok thanks sara

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Thursday, October 22, 2015 1:17 PM
To: Ronald Fonger
Subject: RE: state money for detroit water

Ok, Ron, here's our update and response.

Our understanding of the original plan and agreement to re-connect with GLWA-DWSD called for monthly payments from the city. Unbeknownst to the state, the city entered into an arrangement with GLWA-DWSD for one upfront sum and payment.

We want to help ensure that there are absolutely no complications or interruptions in Flint residents receiving water from GWLA-DWSD, so we are taking steps to immediately wire the remaining money to the city now that we are aware of, and have confirmed, this final arrangement. They should have all of the state funds within a business day or two.

Thanks for checking in and flagging this.

Best,
SW

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Thursday, October 22, 2015 12:20 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: state money for detroit water

Yes I'll wait.
Appreciate the update

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Thanks,

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MLive Media Group
Reporter

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email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Maloney, Damon <damon.maloney@abc12.com>
Sent: Wednesday, October 28, 2015 9:59 AM
To: Murray, David (GOV)
Cc: Wurfel, Sara (GOV)
Subject: Flint Water Inquiry

There are several groups who are demanding the Governor issue a State of Emerfency related to the water & infrastructure situation in Flint. They claim it would open up the door for federal assistance.

My questions are...

DOES the governor have the power/authority to declare a State of Emergency for issues like what's happening in Flint?

IF such a declaration was made- does it open the doors to federal assistance for example... to replace old lead service lines... and/or other infrastructure?

Has the governor considered/discussed asking for additional monetary help from the federal government for infrastructure repairs/replacements in Flint?

Lastly, the governor has called for a third party review of the decision making that went into Flint's water source switch-problems that followed. What's the latest on that effort? Will the legislature have a role- Sen. Ananich says Legislature should have a role.

Thank you

Damon Maloney
abc12 News
Sent from my iPhone

From: Kiertzner, James <jim.kiertzner@wxyz.com>
Sent: Saturday, October 31, 2015 8:55 AM
To: Wurfel, Sara (GOV)
Cc: Murray, David (GOV)
Subject: Re: Requesting on camera interview with the Governor

I am checking back in for a one on one with the Gov this coming week.

Also who is on this task force and when do they meet?

"Gov. Snyder has assembled a third-party task force that includes respected experts in public health, water management and environmental protection for an unbiased review of all actions of the city, state and federal governments regarding water use and testing in Flint," Murray's statement said.

Sent from my iPhone

On Oct 28, 2015, at 12:36 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

> Hi there Jim –
>
> Gov's schedule is really, really challenging over next couple of weeks for any 1:1s like this, and best we may be able to do is something at media avails at regularly scheduled events or quick pull aside from there.
>
> But will see what can do.
>
> Thanks for reaching out and more soon,
> SW
>
> ---
>
> **From:** Kiertzner, James [mailto:jim.kiertzner@wxyz.com]
> **Sent:** Wednesday, October 28, 2015 10:37 AM
> **To:** Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
> **Subject:** Requesting on camera interview with the Governor
>
> In the next week or so, I'm requesting an on camera interview with the Governor on these topics:

Not Responsive

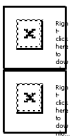
Flint Water

Let me know when you can.

We could do in metro Detroit, or come up to Lansing.

Thanks in advance,

Jim



Jim Kiertzner
7 Investigator
WXYZ Detroit
W: 248-827-9407
C: **PPI**
jimk@wxyz.com
20777 West 10 Mile Road
Southfield, Michigan 48075
Twitter: kiertzner7

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From: Murray, David (GOV)
Sent: Saturday, October 31, 2015 11:14 AM
To: 'Kiertzner, James'
Cc: Wurfel, Sara (GOV)
Subject: RE: Requesting on camera interview with the Governor

Hi Jim,

Here's a link to the release about the task force, which was announced Oct. 21.

http://www.michigan.gov/snyder/0,4668,7-277-57577_57657-367761--,00.html

Co-chairs Ken Sikkema and Chris Kolb have agreed to serve as spokesmen, and seem to be very accessible, based on the coverage I've seen so far. Members are:

Ken Sikkema is a senior policy fellow at Public Sector Consultants, where he specializes in public finance, environment, and energy policy. Prior to joining the firm, Sikkema served in both the Michigan House and Senate, culminating with four years as Senate majority leader. He has also served as both an adjunct and visiting professor at Grand Valley State University.

Chris Kolb is president of the Michigan Environmental Council, a statewide coalition of 70 environmental, public health and faith-based nonprofit groups. Before joining the MEC, Kolb represented Ann Arbor in the state House for six years and served six years on the Ann Arbor City Council. He has been president of the MEC for six years.

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A full one-on-one will be tough this week, but the governor has a number of public events with scrums and I can make sure you get a question in there.

Dave

From: Kiertzner, James [mailto:jim.kiertzner@wxyz.com]
Sent: Saturday, October 31, 2015 8:55 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
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Sent: Wednesday, October 28, 2015 10:37 AM
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Subject: Requesting on camera interview with the Governor

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Not Responsive

Flint Water

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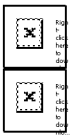
Thanks in advance,

Jim



Jim Kiertzner
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From: Arthur Delaney <arthur@huffingtonpost.com>
Sent: Monday, November 16, 2015 9:15 AM
To: Wurfel, Sara (GOV)
Subject: Fwd: Residents of Flint, Michigan, to Sue City, State over Lead in Drinking Water

Hi, I am filing a short story on this lawsuit -- please let me know if the governor's office would care to comment.

---------- Forwarded message ----------
From: **Margie Kelly** <mkelly@nrdc.org>
Date: Mon, Nov 16, 2015 at 9:00 AM
Subject: Residents of Flint, Michigan, to Sue City, State over Lead in Drinking Water
To: jason.cherkis@huffingtonpost.com

FOR IMMEDIATE RELEASE

Contacts: Margie Kelly, NRDC, mkelly@nrdc.org, 312-651-7935; Darrell Dawsey, ACLU of Michigan, ddawsey@aclumich.org, 313-578-6831

Residents of Flint, Michigan, to Sue City, State over Lead in Drinking Water

Natural Resources Defense Council, ACLU of Michigan Start Legal Process to Stop Ongoing Violations of the Safe Drinking Water Act

CHICAGO (November 16, 2015) – Residents of Flint, Mich., together with the ACLU of Michigan and the Natural Resources Defense Council, today announced their intention to sue state and city officials for ongoing violations of the federal Safe Drinking Water Act amid the city's widespread lead-contamination crisis. A lawsuit would force officials to address repeated, systemic failures to follow federal rules designed to protect the public health from dangerous levels of lead exposure.

"The community of Flint is strong and united in our commitment to repair the harm lead exposure has inflicted on our children and families. We are taking a stand so that our community can heal the damage that has been done and work together so that justice can prevail," said Pastor Allen Overton, a leader of the Concerned Pastors for Social Action.

"This action is about holding the government accountable for failing to protect the public health of an entire community," said Anjali Waikar, an environmental justice staff attorney at the Natural Resources Defense Council. "This case also highlights a troubling trend in which the government is willing to cut costs at the expense of its most vulnerable citizens," Waikar said.

"In their short-sighted effort to save a buck, the leaders who were supposed to be protecting Flint's citizens instead left them exposed to dangerously high levels of lead contamination," said Michael Steinberg, legal director for the ACLU of Michigan. "Not only were the city and state's actions dangerous and misguided. They were illegal, too."

Dangerous amounts of lead leached out of the city's pipes and into the drinking water of Flint's homes and schools for more than a year following a decision by Flint officials to eschew Detroit's water supply in favor of using the Flint River as the City's primary drinking water source. Not long after the switch, residents began to complain about the smell and discoloration of the water and, later, physical ailments stemming from the tainted water.

Officials working on behalf of Flint insisted for several months that the water was safe. However, water tests conducted by experts from Virginia Tech proved those assurances to be wrong, and a study by a local pediatrician that showed that the

proportion of Flint kids with elevated blood lead levels had doubled since the City switched water sources. After officials could no longer deny that the community's drinking water was contaminated, Michigan Gov. Rick Snyder finally conceded that Flint should stop using the river water and return to the Detroit water system.

Despite this move, though, city and state officials have continued to violate federal legal requirements for monitoring and sampling tap water for lead, notifying the public about water-testing results and maintaining corrosion control from Flint's lead pipes.

"So much irreparable harm has been done as a direct result of the failures and lack of oversight perpetrated by the City of Flint and Michigan officials who are the very people we relied on to keep us safe. This lawsuit gives me hope that this will stop and no other city will have to endure the physical, property, and emotional damage that Flint residents have," said Melissa Mays of Water You Fighting For, a Flint-based organization.

There is no safe level of lead exposure. The toxic effects of lead on virtually every system in the body, and particularly on the developing brains of young children, are well documented. It can also contribute to high blood pressure and other health problems in adults. Even low levels of lead in the blood have been shown to affect IQ, ability to pay attention, and academic achievement, effects that are irreversible.

The Notice of Intent to Sue was served on behalf of Concerned Pastors for Social Action, an association of religious leaders from Flint; Melissa Mays, a Flint resident; the ACLU of Michigan; and the Natural Resources Defense Council. The groups assert that since April 2014, the City of Flint and Michigan state officials have failed to monitor and control for lead in Flint's drinking water and maintain a program to assist Michigan schools with lead testing and remediation, in violation of the federal Safe Drinking Water Act. If City of Flint and Michigan state officials – including Governor Rick Snyder and Dan Wyant, Director of Michigan Department of Environmental Quality - do not remedy violations under the Safe Drinking Water Act within sixty days, the groups intend to file a lawsuit in federal court.

Flint and state officials have known since 2011 that choosing the Flint River as a drinking water source could result in lead contamination issues, due to its highly corrosive properties. Yet state and city officials insisted that the water was safe to drink - even after testing found dangerously high lead levels in some residents' tap water. Citizen concerns about high lead levels were dismissed by state and city officials as "near hysteri[cal]" and "irresponsible," despite well-established evidence that there is no safe level of lead exposure, and that even low levels of lead in the blood have been shown to affect IQ, ability to pay attention, and academic achievement, effects that are irreversible.

The Notice of Intent to Sue is required under the Safe Drinking Water Act as a prerequisite to filing suit.

###

For nearly 100 years, the ACLU has been our nation's guardian of liberty, working in courts, legislatures, and communities to defend and preserve the individual rights and liberties that the Constitution and the laws of the United States guarantee everyone in this country. The ACLU of Michigan was officially established in 1959 as part of that mission.

The Natural Resources Defense Council (NRDC) is an international nonprofit environmental organization with more than 2 million members and online activists. Since 1970, our lawyers, scientists, and other environmental specialists have worked to protect the world's natural resources, public health, and the environment. NRDC has offices in New York City, Washington, D.C., Los Angeles, San Francisco, Chicago, Bozeman, MT, and Beijing. Visit us atwww.nrdc.org and follow us on Twitter @NRDC.

If you would rather not receive future communications from Natural Resources Defense Council, let us know by clicking here.
Natural Resources Defense Council, 40 West 20th Street 11th Floor, New York, NY 10011 United States

--
Reporter | Huffington Post
(202) 624-9396 desk | [redacted] cell
Twitter @ArthurDelaneyHP

From: Murray, David (GOV)
Sent: Monday, November 16, 2015 1:10 PM
To: 'Ronald Fonger'
Cc: Wurfel, Sara (GOV)
Subject: RE: seeking comment on lawsuits concerning Flint water

Hello Ron, Sara will get back to you.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, November 16, 2015 9:26 AM
To: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: seeking comment on lawsuits concerning Flint water

Dave:
I'm covering a news conference at 11 a.m. concerning a federal lawsuit filed by Melissa Mays and others concerning Flint water.
The lawsuit names city and state officials, including the governor.
Here is a link to that lawsuit.
We are seeking your comment.
http://pittlawpc.com/wp-content/uploads/2015/11/Mays-vs.-Snyder-et-al.-Complaint-and-Jury-Demand-Final-1.pdf

I've also attached an intent to sue notice from the ACLU and NDRC, which is also concerning Flint water and which also names governor and other state officials.
Seeking your comment on that as well.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Ronald Fonger <RFONGER1@mlive.com>
Sent: Monday, November 16, 2015 2:17 PM
To: Wurfel, Sara (GOV)
Subject: RE: u.s. district court lawsuit concerning flint water

Thanks Sara. I'll be sure to include it.

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
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To: Ronald Fonger <RFONGER1@mlive.com>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: u.s. district court lawsuit concerning flint water

Hi there Ron –

Sure – can do now.

We haven't been served yet so can't comment on specific details. What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Just let me know if anything more needed at all.

Thanks and best,
SW

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, November 16, 2015 2:05 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: u.s. district court lawsuit concerning flint water

Sara:

Dave Murray said you would be handling any comment on the lawsuit filed in U.S. District Court Friday.
Do you have an estimated time when you will be available or have a comment?
I'm putting the story together now.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com

address 540 S. Saginaw St. #101, Flint MI 48502

From: Dupnack, Jessica <jessica.dupnack@abc12.com>
Sent: Monday, November 16, 2015 2:18 PM
To: Wurfel, Sara (GOV)
Subject: RE: Flint Water Class Action

I understand completely. Thank you again.

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, November 16, 2015 2:17 PM
To: Dupnack, Jessica
Subject: RE: Flint Water Class Action

Of course – though heads up that's probably not going to change much, given what would be pending litigation.

From: Dupnack, Jessica [mailto:jessica.dupnack@abc12.com]
Sent: Monday, November 16, 2015 2:17 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: Flint Water Class Action

Thank you! I may ask for comment tomorrow. Once you've (the office) officially been served.

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, November 16, 2015 2:15 PM
To: Dupnack, Jessica
Subject: RE: Flint Water Class Action

Greetings, Jessica –

Happy to share comment from our end, which is …

You are correct - we haven't been served yet so can't comment on specific details. What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Just let me know if anything more needed at all.

Thanks and best,
SW

From: Dupnack, Jessica [mailto:jessica.dupnack@abc12.com]
Sent: Monday, November 16, 2015 2:13 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint Water Class Action

Hello Sara. Jessica here with ABC 12 News.

Working on a story today about a class action suit filed against Gov. Snyder and 13 other officials.
I was wondering if there would be any comment from your end? I understand that the defendants have not been served.

Thanks for your help.

From: Ronald Fonger <RFONGER1@mlive.com>
Sent: Monday, November 16, 2015 2:34 PM
To: Wurfel, Sara (GOV)
Subject: RE: u.s. district court lawsuit concerning flint water

Sara:
Thanks for the response. Does that go for the notice of intent to sue filing (ACLU/NRDC) as well as the U.S. District Court case?

From: Wurfel, Sara (GOV) [mailto:WurfelS@michigan.gov]
Sent: Monday, November 16, 2015 2:14 PM
To: Ronald Fonger <RFONGER1@mlive.com>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: u.s. district court lawsuit concerning flint water

Hi there Ron --

Sure -- can do now.

We haven't been served yet so can't comment on specific details. What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Just let me know if anything more needed at all.

Thanks and best,
SW

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, November 16, 2015 2:05 PM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>
Subject: u.s. district court lawsuit concerning flint water

Sara:

Dave Murray said you would be handling any comment on the lawsuit filed in U.S. District Court Friday.
Do you have an estimated time when you will be available or have a comment?
I'm putting the story together now.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rlonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Ronald Fonger <RFONGER1@mlive.com>
Sent: Monday, November 16, 2015 2:40 PM
To: Wurfel, Sara (GOV)
Subject: RE: u.s. district court lawsuit concerning flint water

In your second sentence … did you mean what "we" or "I" would say….?
Thanks

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, November 16, 2015 2:14 PM
To: Ronald Fonger <RFONGER1@mlive.com>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: u.s. district court lawsuit concerning flint water

Hi there Ron –

Sure – can do now.

We haven't been served yet so can't comment on specific details. What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Just let me know if anything more needed at all.

Thanks and best,
SW

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, November 16, 2015 2:05 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: u.s. district court lawsuit concerning flint water

Sara:

Dave Murray said you would be handling any comment on the lawsuit filed in U.S. District Court Friday.
Do you have an estimated time when you will be available or have a comment?
I'm putting the story together now.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com

address 540 S. Saginaw St. #101, Flint MI 48502

From: Arthur Delaney <arthur@huffingtonpost.com>
Sent: Monday, November 16, 2015 3:07 PM
To: Wurfel, Sara (GOV)
Subject: Re: Residents of Flint, Michigan, to Sue City, State over Lead in Drinking Water

Thanks

On Monday, November 16, 2015, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

Greetings, Arthur –

Sorry for the delay. It's been a bit more crazy busy than normal.

On this lawsuit, we haven't been served yet so can't comment on specific details. What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Just let me know if anything more needed at all.

Thanks and best,

SW

Sara Wurfel, APR

Press Secretary | Executive Office of Governor Rick Snyder

wurfels@michigan.gov

517-335-6397, office

PPI, mobile

Twitter:@SaraLW

From: Arthur Delaney [mailto:arthur@huffingtonpost.com]
Sent: Monday, November 16, 2015 9:15 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Fwd: Residents of Flint, Michigan, to Sue City, State over Lead in Drinking Water

Hi, I am filing a short story on this lawsuit -- please let me know if the governor's office would care to comment.

---------- Forwarded message ----------
From: **Margie Kelly** <mkelly@nrdc.org>
Date: Mon, Nov 16, 2015 at 9:00 AM
Subject: Residents of Flint, Michigan, to Sue City, State over Lead in Drinking Water
To: jason.cherkis@huffingtonpost.com

FOR IMMEDIATE RELEASE

Contacts: Margie Kelly, NRDC, mkelly@nrdc.org, 312-651-7935; Darrell Dawsey, ACLU of Michigan, ddawsey@aclumich.org, 313-578-6831

Residents of Flint, Michigan, to Sue City, State over Lead in Drinking Water

Natural Resources Defense Council, ACLU of Michigan Start Legal Process to Stop Ongoing Violations of the Safe Drinking Water Act

CHICAGO (November 16, 2015) – Residents of Flint, Mich., together with the ACLU of Michigan and the Natural Resources Defense Council, today announced their intention to sue state and city officials for ongoing violations of the federal Safe Drinking Water Act amid the city's widespread lead-contamination crisis. A lawsuit would force officials to address repeated, systemic failures to follow federal rules designed to protect the public health from dangerous levels of lead exposure.

"The community of Flint is strong and united in our commitment to repair the harm lead exposure has inflicted on our children and families. We are taking a stand so that our community can heal the damage that has been done and work together so that justice can prevail," said Pastor Allen Overton, a leader of the Concerned Pastors for Social Action.

"This action is about holding the government accountable for failing to protect the public health of an entire community," said Anjali Waikar, an environmental justice staff attorney at the Natural Resources Defense Council. "This case also highlights a troubling trend in which the government is willing to cut costs at the expense of its most vulnerable citizens," Waikar said.

"In their short-sighted effort to save a buck, the leaders who were supposed to be protecting Flint's citizens instead left them exposed to dangerously high levels of lead contamination," said Michael Steinberg, legal director for the ACLU of Michigan. "Not only were the city and state's actions dangerous and misguided. They were illegal, too."

Dangerous amounts of lead leached out of the city's pipes and into the drinking water of Flint's homes and schools for more than a year following a decision by Flint officials to eschew Detroit's water supply in favor of using the Flint River as the City's primary drinking water source. Not long after the switch, residents began to complain about the smell and discoloration of the water and, later, physical ailments stemming from the tainted water.

Officials working on behalf of Flint insisted for several months that the water was safe. However, water tests conducted by experts from Virginia Tech proved those assurances to be wrong, and a study by a local pediatrician that showed that the proportion of Flint kids with elevated blood lead levels had doubled since the City switched water sources. After officials could no longer deny that the community's drinking water was contaminated, Michigan Gov. Rick Snyder finally conceded that Flint should stop using the river water and return to the Detroit water system.

Despite this move, though, city and state officials have continued to violate federal legal requirements for monitoring and sampling tap water for lead, notifying the public about water-testing results and maintaining corrosion control from Flint's lead pipes.

"So much irreparable harm has been done as a direct result of the failures and lack of oversight perpetrated by the City of Flint and Michigan officials who are the very people we relied on to keep us safe. This lawsuit gives me hope that this will stop and no other city will have to endure the physical, property, and emotional damage that Flint residents have," said Melissa Mays of Water You Fighting For, a Flint-based organization.

There is no safe level of lead exposure. The toxic effects of lead on virtually every system in the body, and particularly on the developing brains of young children, are well documented. It can also contribute to high blood pressure and other health problems in adults. Even low levels of lead in the blood have been shown to affect IQ, ability to pay attention, and academic achievement, effects that are irreversible.

The Notice of Intent to Sue was served on behalf of Concerned Pastors for Social Action, an association of religious leaders from Flint; Melissa Mays, a Flint resident; the ACLU of Michigan; and the Natural Resources Defense Council. The groups assert that since April 2014, the City of Flint and Michigan state officials have failed to monitor and control for lead in Flint's drinking water and maintain a program to assist Michigan schools with lead testing and remediation, in violation of the federal Safe Drinking Water Act. If City of Flint and Michigan state officials – including Governor Rick Snyder and Dan Wyant, Director of Michigan Department of Environmental Quality - do not remedy violations under the Safe Drinking Water Act within sixty days, the groups intend to file a lawsuit in federal court.

Flint and state officials have known since 2011 that choosing the Flint River as a drinking water source could result in lead contamination issues, due to its highly corrosive properties. Yet state and city officials insisted that the water was safe to drink - even after testing found dangerously high lead levels in some residents' tap water. Citizen concerns about high lead levels were dismissed by state and city officials as "near hysteri[cal]" and "irresponsible," despite well-established evidence that there is no safe level of lead exposure, and that even low levels of lead in the blood have been shown to affect IQ, ability to pay attention, and academic achievement, effects that are irreversible.

The Notice of Intent to Sue is required under the Safe Drinking Water Act as a prerequisite to filing suit.

###

For nearly 100 years, the ACLU has been our nation's guardian of liberty, working in courts, legislatures, and communities to defend and preserve the individual rights and liberties that the Constitution and the laws of the United States guarantee everyone in this country. The ACLU of Michigan was officially established in 1959 as part of that mission.

The Natural Resources Defense Council (NRDC) is an international nonprofit environmental organization with more than 2 million members and online activists. Since 1970, our lawyers, scientists, and other environmental specialists have worked to protect the world's natural resources, public health, and the environment. NRDC has offices in New York City, Washington, D.C., Los Angeles, San Francisco, Chicago, Bozeman, MT, and Beijing. Visit us atwww.nrdc.org and follow us on Twitter @NRDC.

If you would rather not receive future communications from Natural Resources Defense Council, let us know by clicking here.
Natural Resources Defense Council, 40 West 20th Street 11th Floor, New York, NY 10011 United States

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Reporter | Huffington Post

(202) 624-9396 desk | PPI cell

Twitter @ArthurDelaneyHP

--
Reporter | Huffington Post
(202) 624-9396 desk | PPI cell
Twitter @ArthurDelaneyHP

From: Christopher Klaver <cklaver@gongwer.com>
Sent: Monday, November 16, 2015 3:08 PM
To: Wurfel, Sara (GOV)
Subject: RE: Flint water lawsuit(s)

Thanks, Sara. This should help me out.

Christopher Klaver
Staff Writer
Gongwer News Service
cklaver@gongwer.com
517.482.3500
PPI cell)
517.482.4369 (fax)
www.gongwer.com

News, Bill Tracking, Directories, Election Data, Administrative Rules - Gongwer Is Your Complete Source For Staying In Touch With Michigan Government

-----Original Message-----
From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, November 16, 2015 2:35 PM
To: Chris Klaver - Gongwer
Subject: Flint water lawsuit(s)

Hi there Chris -

Understand you were looking for comment on potential/pending Flint lawsuits.

First, we haven't been served yet so can't comment on specific details.

What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Just let me know if anything more needed at all.

Thanks and best,

SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder wurfels@michigan.gov<mailto:wurfels@michigan.gov>
517-335-6397, office
PPI mobile
Twitter:@SaraLW

This email has been checked for viruses by Avast antivirus software.
https://www.avast.com/antivirus

From: Jeremy Berke <jberke@businessinsider.com>
Sent: Monday, November 16, 2015 3:54 PM
To: Wurfel, Sara (GOV)
Subject: Re: Comment for story regarding Flint water contamination

Hi Sara,

Thanks so much, I appreciate the comment. I'll add it into the story. I'll be following how this issue develops over the coming weeks, so I may end up getting in touch again with more questions.

All the best,

Jeremy

On Mon, Nov 16, 2015 at 3:40 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

Greetings, Jeremy –

First, we haven't been served yet so can't comment on specific details.

What would say is that … we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Just let me know if anything more needed at all.

Thanks and best,

SW

Sara Wurfel, APR

Press Secretary | Executive Office of Governor Rick Snyder

wurfels@michigan.gov

517-335-6397, office

PPI mobile

Twitter:@SaraLW

From: Jeremy Berke [mailto:jberke@businessinsider.com]
Sent: Monday, November 16, 2015 2:54 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Comment for story regarding Flint water contamination

Hello,

I'm a reporter with Business Insider. I'm currently looking into water contamination issues in Flint, as both the NRDC and ACLU released an intent to sue the state and city government over the ongoing lead contamination.

I wanted to give your office a chance to provide any comments you'd like to include with the story.

Best,

Jeremy

--

Jeremy Berke

News Intern, Business Insider
Twitter: @jfberke

(508) 560-3813

--
Jeremy Berke
News Intern, Business Insider
Twitter: @jfberke
(508) 560-3813

From: Ronald Fonger <RFONGER1@mlive.com>
Sent: Monday, November 16, 2015 4:18 PM
To: Wurfel, Sara (GOV)
Subject: RE: u.s. district court lawsuit concerning flint water

Ok gottcha

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, November 16, 2015 3:10 PM
To: Ronald Fonger <RFONGER1@mlive.com>
Subject: RE: u.s. district court lawsuit concerning flint water

It was really just a transition and not meant for direct attribution but rather the piece about "moving forward ...." – sorry for my shorthand. Either I or we – either context works if you want to use it as direct quote.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, November 16, 2015 2:40 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: u.s. district court lawsuit concerning flint water

In your second sentence ... did you mean what "we" or "I" would say....?
Thanks

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, November 16, 2015 2:14 PM
To: Ronald Fonger <RFONGER1@mlive.com>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: u.s. district court lawsuit concerning flint water

Hi there Ron –

Sure – can do now.

We haven't been served yet so can't comment on specific details. What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Just let me know if anything more needed at all.

Thanks and best,
SW

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, November 16, 2015 2:05 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: u.s. district court lawsuit concerning flint water

Sara:

Dave Murray said you would be handling any comment on the lawsuit filed in U.S. District Court Friday.
Do you have an estimated time when you will be available or have a comment?
I'm putting the story together now.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Ronald Fonger <RFONGER1@mlive.com>
Sent: Tuesday, November 17, 2015 9:53 AM
To: Wurfel, Sara (GOV)
Subject: request for comment on congressman's letter
Attachments: 111315 Update and Health Fund Request (Snyder).pdf

Hi Sara:
I've attached a copy of a letter Congressman Kildee sent to Gov. Snyder last week concerning Flint water issues.
I didn't know if there has been a formal reply and/or if you would want to comment on it.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

DANIEL T. KILDEE
5TH DISTRICT, MICHIGAN

COMMITTEE ON
FINANCIAL SERVICES

SUBCOMMITTEE ON
HOUSING AND INSURANCE

SUBCOMMITTEE ON
MONETARY POLICY AND TRADE

SENIOR WHIP

DEMOCRATIC POLICY AND
COMMUNICATIONS COMMITTEE

Congress of the United States
House of Representatives
Washington, DC 20515

WASHINGTON OFFICE

227 CANNON HOUSE OFFICE BUILDING
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(202) 225-6393 (FAX)

DISTRICT OFFICE

111 EAST COURT STREET #3B
FLINT, MI 48502
(810) 238-8627
(810) 238-8658 (FAX)

WWW.DANKILDEE.HOUSE.GOV
/REPDANKILDEE
@REPDANKILDEE

November 13, 2015

Governor Rick Snyder
Executive Office of the Governor
P.O. Box 30013
Lansing, Michigan 48909

Governor Snyder:

I would like to provide you an update with some of the work we are doing in response to your letter on October 2, 2015 letter. I also have three requests of the state that are necessary to provide relief to the victims of the Flint water crisis.

First, Senator Stabenow, Senator Peters and I wrote a letter to the U.S. Environmental Protection Agency (EPA) asking for clarification on whether federal law permits states to use Safe Drinking Water State Revolving Funds (Revolving Funds) to finance the replacement of privately owned lead water service lines (attached). The EPA responded that the Revolving Funds can in fact be used for this purpose. My office immediately notified both your office and the Michigan Department of Environmental Quality of this fact.

Secondly, the three of us also wrote to Secretary Tom Vilsack requesting that the U.S. Department of Agriculture (USDA) provide greater clarification on the availability of "Ready to Feed" formula for recipients of Special Supplemental Nutrition Program for Women, Infants and Children (WIC) in Flint. Additionally, the letter asks to identify resources to improve the nutrition of Flint residents specifically as it relates to lead, because a certain diet can reduce some of the impact of exposure. The USDA is currently reviewing the letter.

Third, I have been working with the EPA on important revisions to the Lead and Copper Rule that would prevent a public health crisis like the one in Flint from happening again in other communities. I will be providing testimony at a meeting of the National Drinking Water Advisory Council next Wednesday, November 18 on what we have learned firsthand in Flint and the necessary improvements to the Lead and Copper Rule.

I will continue to pursue all of these avenues in order to find assistance for the people of Flint. There are, however, additional steps that need to be taken to remediate the damage done to the people of Flint due to the failures at the state government level, alongside the forgiveness of Flint's Revolving Funds loan debt if that becomes available. I urge state and local partners to work in coordination to fulfill the following requests.

- First, I request that the state of Michigan use its Revolving Funds and other state resources such as the rainy day and general funds to repair the damage done to Flint's water distribution system.

Due to the corrosive nature of the water, conservative estimates show there has been hundreds of millions of dollars of damage done to Flint's water distribution system. The damage to the system will increase maintenance costs resulting in higher rates for Flint water users, who already are burdened by the highest water rates in the state. Furthermore, the presence of over 15,000 lead service lines continues to threaten the quality of the water and creates the potential for future lead exposure through drinking water. As stated previously, the EPA has said that using the Revolving Funds for this purpose is allowed under federal law, and I request the state do so.

- Second, I request the state create a fund for ongoing assistance to the people of Flint to respond to the impacts of lead exposure.

The effects of lead are serious and permanent, with especially harmful impacts on young children and those with weakened immune systems. In discussions with health professionals, they have expressed the need for significant investments in the local health system in order to respond to the widespread exposure of lead to the people of Flint, including monitoring of future lead exposure. This fund should include support for, at a minimum, continuous health monitoring, early education programs, nutrition education, support services for children to succeed in school, and continued exposure prevention efforts. The investments we make now to combat the negative impacts of lead exposure will pay dividends in avoided costs in the future.

- Finally, I again ask that the state immediately reverse course and rescind Flint's obligation to provide $2 million for the cost of connecting to the Detroit water system and refund any money the city of Flint has had to pay.

Requiring a financially distressed city and its people to pay for the state's failures is an abdication of clear responsibility by the state. The state-appointed emergency manager was in charge of the city of Flint during the time that the decision to leave the Detroit system was made. The state – not Flint – created this water crisis, and the state needs to pay to fix it. The $2 million Flint spent to reconnect to the Detroit water system could be used for many other essential services in Flint, such as hiring policemen and firefighters, improving schools and maintaining parks.

In addition to state investments, I encourage the state to request assistance from federal agencies. They have extensive experience working with health, education and nutrition systems nationwide and could provide critical resources to state officials. Specifically, the Centers for Disease Control and Prevention has offered resources if the state requests it. I will work to support any efforts for federal assistance the state makes.

I look forward to working with the state and federal governments to not only provide clean drinking water to the people of Flint immediately, but also repair the damage done to the city's water system and give local health professionals the resources they need to combat the long term impacts of lead exposure.

Sincerely,

Dan Kildee
MEMBER OF CONGRESS

Cc:
Senate Republican Leader Arlen Meekhof
Senate Democratic Leader Jim Ananich
Speaker of the House Kevin Cotter
House Democratic Leader Tim Greimel

From: Egan, Paul <pegan@freepress.com>
Sent: Friday, November 20, 2015 9:45 AM
To: Wurfel, Sara (GOV)
Cc: Murray, David (GOV)
Subject: Re: Flint water

Ok thanks

Sent from my iPhone

> On Nov 20, 2015, at 9:34 AM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:
>
> Covered this issue previously with Nancy, Paul, as has Terry. Not sure what's new or different here at all, but will be happy to try and help.
>
> The chief mentioned this am you reached out and asked me to cover.
>
> Am with the governor at events this first part of today, but should be able to call about Noon or just after. Work for you?
>
> Sara Wurfel
> Press Secretary | Executive Office of Governor Rick Snyder
>
> Sent from my iPhone
>
> On Nov 20, 2015, at 8:43 AM, Egan, Paul <pegan@freepress.com<mailto:pegan@freepress.com>> wrote:
>
> Good morning, Sara: I sent the e-mail below to Dennis on Thursday but I haven't received a response. I am following up with you because Nancy Kaffer tells me she had raised the issue of the March 25, 2013 phone call with you earlier, though the last I heard from Nancy about it, she had not received a response.
> We are running a story on the weekend so I would very much appreciate some answers today.
> Did Dennis Muchmore, through his consultation with former Treasurer Dillon on the day of the Flint City Council meeting, sign off on the switch to KWA, and did Muchmore inform and get sign-off from Gov. Snyder in doing so?
> Thanks, Paul
> cc Dave Murray
>
>
> From: Egan, Paul
> Sent: Thursday, November 19, 2015 11:17 AM
> To: 'muchmored@michigan.gov<mailto:muchmored@michigan.gov>'
> Subject: Flint water
>
> Hi Dennis: Some time ago I obtained former Treasurer Andy Dillon's appointment calendar, under FOIA.
> On March 25, 2013, at 5 p.m., it lists: "Call with Dennis Muchmore regarding Flint Water Supply Alternatives."
> Later that evening, the city council of Flint, which was under a state-appointed emergency manager, voted to switch its water supply from the city of Detroit to a new Karegnondi Water Authority.
> Can you please call me to discuss your/the state's role in that decision?
> Also, for another time, maybe in December, would love to do an exit interview before you leave your current post.

> Thanks, Paul
> o. 517-372-8660
> c. PPI
>

From: Steve Hood <steve@roninamerica.net>
Sent: Sunday, November 22, 2015 3:48 PM
To: Wurfel, Sara (GOV)
Subject: Questions

Sarah, there are only two questions for tomorrow's interview:

Question 1: Please tell us about the DPS legislation that is being proposed and how it will help better educate the Detroit Students.

Question 2: How are you going to fix Flint's water system problems and how will you keep a situation like this from happening again.
Please note, I am not going after the "why" of Flint. I just want to hear the solution.

RONIN AMERICA
14450 SCRIPPS
DETROIT, MI 48215
EMAIL:STEVE@RONINAMERICA.NET
Ph:313-737-9311

From: Murray, David (GOV)
Sent: Monday, November 09, 2015 3:49 PM
To: Wurfel, Sara (GOV)
Subject: Re: Flint water school testing results - TODAY

Will do. I know they were planning something but didn't realize it was happening today.

Sent from my iPhone

On Nov 9, 2015, at 3:47 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

> Dave – you'll want to make sure governor is aware of this too given today's timing just in case. These are kinds of things we need and want to make sure he and senior staff have a heads up on.
>
> **From:** Wurfel, Sara (GOV)
> **Sent:** Monday, November 09, 2015 3:47 PM
> **To:** Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>
> **Cc:** Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Wisniewski, Wendy (GOV) <wisniewskiw@michigan.gov>; Scott, Allison (GOV) <scotta12@michigan.gov>
> **Subject:** FW: Flint water school testing results - TODAY
> **Importance:** High
>
> Please see below and attached release per brief convo at senior staff. Sill no exact word on timing of blood lead level data from DHHS – hopefully by late this week.
>
> DEQ also has video that they'll be using for some footage of the testing with TV stations. Link here: https://youtu.be/Amy4cDW7RtA
>
> # Freeman Elementary water testing shows lead exposure limited to fixtures
> *Experts release water testing results on schools and homes in Flint*
>
> As part of Gov. Rick Snyder's action plan for Flint drinking water, the DEQ today released water testing data from nearly 400 homes and businesses in Flint as well as comprehensive sampling results from Freeman Elementary School.
>
> Both sets of data indicate the problems with lead are localized to individual buildings or even individual faucets, rather than system-wide issues.
>
> "The results from this data underline the need for water testing at all homes, businesses, schools and other buildings in Flint," said George Krisztian, the DEQ's Flint Action Plan Coordinator. "Problems with lead exposure appear to be localized to individual service lines or plumbing fixtures, and we want to see all families in Flint take advantage of free water testing from the state."

Freeman Elementary testing results
At Freeman Elementary, 31 faucets were tested using a series of four samples each. Twenty-two outlets did not show elevated lead exposure, but nine faucets came back with initially high results.

Those nine outlets involve brass components, indicating the problem involves the fixtures or plumbing immediately surrounding the fixture. When the faucets and fountains were operated for several minutes, lead levels fell significantly, in some cases to non-detectable levels.

Additional testing designed to look deep into the school's plumbing did not suggest larger, systemic issues.

Freeman Elementary has several options for remedying the issues at these nine faucets and fountains. The school can elect not to use those particular fountains, or implement a formalized flushing regimen. The sampling results indicate that for all but one tap, a 3- to 4-minute flushing period each morning would drastically reduce lead exposure.

For a permanent solution, the school should opt to replace the faucets and fountains of concern.

"The safety and health of our students are our primary concern at Flint Community Schools, so we will start work as soon as possible to replace faucets, aerators and other related components where high lead levels were detected," FCS Superintendent Bilal Tawwab said. "Once those fixes have been made, the DEQ has offered to provide additional testing of the water at Freeman Elementary to ensure the water from every sample is safe for our students. Flint Community Schools appreciates the efforts by the DEQ, working with all stakeholders to make sure our water continues to be tested and that our students have access to safe, clean drinking water."

For Freeman Elementary's complete sampling results and more information about how sampling was conducted, visit www.michigan.gov/flintwater.

The DEQ and the DLARA also have conducted sampling at other Flint schools, and results will soon be available on the DEQ's website. Additionally, the state will test every other school in the Flint Community Schools district, as well as any school or daycare in the city. Interested schools and daycare centers should contact George Krisztian at krisztiang@michigan.gov.

Homeowner and other customer-requested testing results
Results from the 381 samples from homes, businesses, schools and other facilities that took advantage of free water testing through the state showed similar, localized results. More than 75 percent of the samples analyzed demonstrated lead results of 5 parts per billion or less, and more than 91 percent demonstrated lead results of 15 parts per billion or less.

This data suggests that while some homes experience elevated lead level results due to lead service lines or in-home plumbing, many other homes experience little to no lead. This can make it difficult for homeowners and businesses to predict their lead exposure.

"Since it's not easy to predict if an individual home's water is at risk for lead, the best thing all residents can do is get their water tested," Krisztian said. "It's a free test that provides valuable information for families."

Testing is available for free by contacting the Flint Water Plant at 810-787-6537 and pressing 1, or by emailing flintwater@cityofflint.com.

For more information about water samples received through the state's free testing program, visit www.michigan.gov/flintwater.

How school sampling was conducted
To conduct this comprehensive sampling, the DEQ and Michigan Department of Licensing and Regulatory Affairs began on Oct. 23 with a thorough plumbing assessment of the school to gain a comprehensive understanding of how water moves through the building and what types of plumbing materials are used. The assessment also identified 31 faucets or fountains in the school that provide water for drinking, cooking and/or food preparation.

On Oct. 24, the DEQ and DLARA took four, 125-milliliter samples from each of the 31 identified faucets and fountains. The first two samples were taken immediately after turning on the faucet, followed by a 30-second flush and then the third sample, followed by a 2-minute flush and then the fourth sample. These samples provided information on the impact of any lead sources in or around each specific faucet and fountain as well as its connecting plumbing.

On Oct. 31, the DEQ and DLARA took an additional 30 samples, 10 each from three sites in the school. These 1-liter samples were taken consecutively, and provided information about the impact of any lead sources deep in the building's plumbing.

From: Brown, Jessica (GOV)
Sent: Monday, November 09, 2015 2:44 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Cc: Agen, Jarrod (GOV) <AgenJ@michigan.gov>
Subject: FW: Flint water school testing results - 3 PM

Saw Dave was on this but since he's on the road, thought you should definitely see as well. DEQ is planning to issue at 3 p.m.

This is the first I've seen a draft but Dave may have been looped in on the back end. Looks ok and pretty thorough to me. If you need help trying to track any background info down let me know. Happy to reach out.

From: Tommasulo, Karen (DEQ)
Sent: Monday, November 09, 2015 2:31 PM
To: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>; Edgerton, Shelly (LARA) <EdgertonS1@michigan.gov>; Dykema, Linda D. (DHHS) <DykemaL@michigan.gov>; Wells, Eden (DHHS) <WellsE3@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Feuerstein, Heather (DEQ) <FeuersteinH@michigan.gov>
Subject: School testing results

We're planning to put out this press release along with a video and the full results of the school and homeowner testing around 3 today. George Krisztian is taking calls.

Karen Tommasulo
Public Information Officer
Michigan Department of Environmental Quality
517-284-6716 | PPI
tommasulok@michigan.gov

From: Murray, David (GOV)
Sent: Sunday, November 22, 2015 9:59 PM
To: Wurfel, Sara (GOV)
Subject: RE: Questions

Right. I was considering those topics, and not actual questions. This is the Detroit office, right? We can use that conference room right off the G's office.

From: Wurfel, Sara (GOV)
Sent: Sunday, November 22, 2015 9:58 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Re: Questions

I will fill you in tomorrow am on what else to likely expect too.

And this really won't be two Qs - more like two areas that will have several related follow ups Qs - whatever can fit into 20 mins.

Sent from my iPhone

On Nov 22, 2015, at 9:47 PM, Murray, David (GOV) <MurrayD1@michigan.gov> wrote:

> Thanks! I'll brief the G prior.
>
> ---
>
> **From:** Wurfel, Sara (GOV)
> **Sent:** Sunday, November 22, 2015 9:47 PM
> **To:** Murray, David (GOV) <MurrayD1@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>; Bedan, Morgan (GOV) <BedanM@michigan.gov>
> **Subject:** Fwd: Questions
>
> Please see below - for tomorrow's Steve Hood interview.
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> > **From:** Steve Hood <steve@roninamerica.net>
> > **Date:** November 22, 2015 at 6:48:07 PM EST
> > **To:** <wurfels@michigan.gov>
> > **Subject: Questions**
> >
> > Sara, there are only two questions for tomorrow's interview:
> >
> > Question 1: Please tell us about the DPS legislation that is being proposed and how it will help better educate the Detroit Students.

Question 2: How are you going to fix Flint's water system problems and how will you keep a situation like this from happening again.
Please note, I am not going after the "why" of Flint. I just want to hear the solution.

RONIN AMERICA
14450 SCRIPPS
DETROIT, MI 48215
EMAIL:STEVE@RONINAMERICA.NET
Ph:313-737-9311

From: Dickinson, Sarah (GOV)
Sent: Thursday, October 01, 2015 6:28 PM
To: Wurfel, Sara (GOV)
Cc: Murray, David (GOV)
Subject: RE: Revised DRAFT Flint water action plan. Please review!

Thanks -- the G has RDS Time for an hour starting at 7:30PM our time so we'll need to get the briefing out in an hour. I'm still new at this so I'll need a few minutes to compile but I think I'm in okay shape. Just an FYI for both of you

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 6:27 PM
To: Dickinson, Sarah (GOV) <DickinsonS@michigan.gov>
Subject: Fwd: Revised DRAFT Flint water action plan. Please review!

Ditto - but for Gov's briefing

Sent from my iPhone

Begin forwarded message:

From: "Murray, David (GOV)" <MurrayD1@michigan.gov>
Date: October 1, 2015 at 6:18:56 PM EDT
To: "Agen, Jarrod (GOV)" <AgenJ@michigan.gov>, "Wurfel, Sara (GOV)" <WurfelS@michigan.gov>, "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>, "Tommasulo, Karen (DEQ)" <TommasuloK@michigan.gov>, "Paciorek, Josh (GOV)" <Pacioreki@michigan.gov>, "Biehl, Laura (GOV)" <BiehlL@michigan.gov>, "Heaton, Anna (GOV)" <HeatonA@michigan.gov>
Subject: Revised DRAFT Flint water action plan. Please review!

Gov. Rick Snyder: Comprehensive action plan will help Flint residents address water concerns

Collaborative effort with state, federal and city leaders focuses on testing, assistance

FLINT, Mich. – Flint residents need to have access to safe, clean, water now and long into the future, Gov. Rick Snyder said, announcing a comprehensive action plan created with state, federal and city leaders to address concerns about drinking water.

The water leaving Flint's drinking water system is safe to drink, but some families with lead plumbing in their homes or connections might experience higher levels of lead in the water that comes out of their faucets.

The action plan focuses on increasing water testing, offering additional precautions for families with lead plumbing in their homes, and providing long-term solutions to address the city's water infrastructure challenges. The plan was created at Snyder's direction by the Michigan Department of Environmental Quality, and the Department of Health and Human Services, the U.S. Environmental Protection Agency, and the City of Flint.

"People are worried about their health and their families, and they need to have accurate information and know that help is available," Snyder said. "Today's action plan builds upon ongoing work with state and federal agencies and our partnership with city and community leaders. Together, we are working to ensure that all Flint residents can feel safe and address potential problems."

The city and the state also are working together to gather more data to ensure the water that leaves the treatment plant as well as the water that arrives in Flint homes is safe for all residents. The plan includes:

- Testing in Flint public schools immediately to ensure that drinking water is safe, with testing also available at no cost to any other school in Flint.
- Expanding health exposure testing of individual homes.
- Offering free water testing to Flint residents to assure their drinking water is safe.
- Accelerating an optimization of corrosion controls in the Flint drinking water system.
- Expanding a Safe Drinking Water Technical Advisory Committee to ensure the best technology, practices and science are being followed by adding an expert from the Environmental Protection Agency's Office of Research and Development to the group.
- Accelerating water system improvements to address replacing lead service lines.
- Naming Dr. Eden Wells, chief medical executive for the Michigan Department of Health and Human Services, as the Flint drinking water public health adviser.
- Providing water filters to residents with concerns or who are included in state assistance programs.
- Creating a comprehensive lead education program to make sure residents have detailed information about how to protect themselves and their homes.
- Expediting the completion of the Karegnondi Water Authority pipeline.

Residents can have their water tested by calling 810-787-6537 and pressing 1, or emailing flintwater@cityofflint.com. Additional information is available at www.michigan.gov/flintwater.

State leaders have been working closely with state and federal lawmakers to tap resources at all levels of government to address concerns.

State health experts said there has been an increase in elevated childhood blood lead levels in some specific communities. Initial analysis of MDHHS data found that blood lead levels of children in Flint have followed an expected seasonal trend. While this analysis for Flint as a whole remains true, a comprehensive and detailed review breaking down data by ZIP codes with the city revealed that MDHHS data is consistent with a study presented recently by Hurley Children's Hospital.

"While we cannot conclusively say that the water source change is the sole cause of the increase, this analysis supports our efforts as we take active steps to reduce all potential lead exposures in Flint," MDHHS Director Nick Lyon said. "As part of this, we are working closely with our public and private partners to provide Flint residents on MDHHS assistance programs with water filters and educate families about the steps they can take to reduce all lead exposures in their home."

As a part of the action plan, MDHHS is making National Sanitation Foundation certified water filters available to clients who are active Family Independence Program, Food Assistance Program, Child Development and Care or Social Security Insurance recipients.

"This action plan offers concrete steps we will take in a local, state and federal partnership to ensure all Flint residents have safe water to drink," DEQ Director Dan Wyant said. "The DEQ will work closely with the city to gather further data to ensure the water that leaves Flint's system as well as the water that arrives in Flint homes is safe to drink."

###

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

From: Wurfel, Sara (GOV)
Sent: Tuesday, January 20, 2015 11:57 AM
To: Murray, David (GOV)
Subject: Fwd: Mayor Walling's letter to the governor

Are you helping track this down already, Dave?

Sent from my iPhone

Begin forwarded message:

> **From:** "Fonger, Ronald" <RFONGER1@mlive.com>
> **Date:** January 20, 2015 at 10:28:22 AM EST
> **To:** "Murray, David (GOV) (MurrayD1@michigan.gov)" <MurrayD1@michigan.gov>, "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>
> **Subject: Mayor Walling's letter to the governor**
>
> Dave/Sara:
> Dayne Walling posted the following on his campaign Web site and I'm writing about it today.
> Can we got a comment from your office?
> Thanks,
>
> Friend,
>
> Access to clean, safe, affordable water is a basic human right.
>
> That's why I just sent Gov. Snyder my Flint Water Improvement Plan. It focuses on the areas of safety, quality, access, investment and education. My letter urges the governor to quickly implement these ideas so that Flint's water is 100% safe.
>
> Please contact Gov. Snyder by calling (517) 335-6397 (or by clicking here) and ask him to take action immediately to implement my plan and ensure Flint's water is safe.
>
> My plan offers new ideas and also builds on successful models of utility, energy and assistance programs at the state and federal levels. Here is my plan:
>
> **Safety & Quality**
>
> - 100% Safety is the standard
> - City of Flint releases testing data to assure safety and expands testing to households with support from the Michigan Department of Environmental Quality
> - Support alternatives for those advised not to drink the water by their doctors through the Michigan Health Endowment Fund and community partners to protect the vulnerable like seniors and infants
> - Bring on experienced river water treatment operational management in the City of Flint
> - Require water testing data to be released quarterly by law in all Michigan communities
>
> **Access**
>
> - Announce an amnesty program for turn-ons and reduce the turn-on cost in Flint
> - Develop a revised payment plan policy to allow customers to come back on to the Flint system

- New Federal and State partnership to establish new Drinking Water Emergency Assistance Fund for customers (modeled on Federal and State energy utility programs: Low Income Home Energy Assistance Program; Michigan Energy Assistance Program; State Emergency Relief)

Investment

- Accelerate water system improvements outlined in the City of Flint Capital Improvement Plan through Federal and State Investments
- State approves City of Flint's Distressed Cities Fund applications
- Federal and State forgiveness of payment to Drinking Water Revolving Loan Fund
- Federal and State financing for future improvements
- City Water Department implements budgeted FY15 projects including leak detection, valve repairs, new pipes and meter replacements

Education

- Develop a community partnership to provide household and business customers with information on testing and conservation
- Ongoing partnership with Michigan Department of Human Services, United Way, Salvation Army and community organizations to provide information on water assistance
- Expand youth energy initiative to assist households with conservation and efficiency (piloted in summer 2014 with Northwestern High School students, EcoWorks and Consumers Energy)

The struggle with our water has gone on for too long. The state must take action and do its part.

Please ask Gov. Snyder to take action immediately to implement my plan and ensure Flint's water is safe.

Thank you for your ongoing support.

Sincerely,

Dayne

P.S. -- Please send this to friends and family so they can take action too!

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Tuesday, January 20, 2015 12:09 PM
To: Murray, David (GOV)
Subject: Re: Mayor Walling's letter to the governor

1st places to start are usually checking with Constits, treasury, and Wendy ...

Sent from my iPhone

On Jan 20, 2015, at 12:06 PM, "Murray, David (GOV)" <MurrayD1@michigan.gov> wrote:

> I am. Trying to find out how it was sent, and who it was sent to.
>
> ---
>
> **From:** Wurfel, Sara (GOV)
> **Sent:** Tuesday, January 20, 2015 11:57 AM
> **To:** Murray, David (GOV)
> **Subject:** Fwd: Mayor Walling's letter to the governor
>
> Are you helping track this down already, Dave?
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> > **From:** "Fonger, Ronald" <RFONGER1@mlive.com>
> > **Date:** January 20, 2015 at 10:28:22 AM EST
> > **To:** "Murray, David (GOV) (MurrayD1@michigan.gov)" <MurrayD1@michigan.gov>, "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>
> > **Subject: Mayor Walling's letter to the governor**
> >
> > Dave/Sara:
> > Dayne Walling posted the following on his campaign Web site and I'm writing about it today.
> > Can we got a comment from your office?
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> >
> > Friend,
> >
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> >
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Safety & Quality

- 100% Safety is the standard
- City of Flint releases testing data to assure safety and expands testing to households with support from the Michigan Department of Environmental Quality
- Support alternatives for those advised not to drink the water by their doctors through the Michigan Health Endowment Fund and community partners to protect the vulnerable like seniors and infants
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Thank you for your ongoing support.

Sincerely,

Dayne

P.S. -- Please send this to friends and family so they can take action too!

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Monday, January 26, 2015 4:13 PM
To: Murray, David (GOV)
Subject: FW: dayne walling/request for comment
Attachments: flintwater_oped_final1.docx

Have you already coordinated with Treasury/DEQ and drafted a response?

From: Fonger, Ronald [mailto:RFONGER1@mlive.com]
Sent: Monday, January 26, 2015 3:54 PM
To: Wurfel, Sara (GOV)
Subject: FW: dayne walling/request for comment

Hi Sara:
I'm sorry, but I am having to turn this around quickly wanted to make sure I was able to reach someone

---

From: Fonger, Ronald
Sent: Monday, January 26, 2015 2:28 PM
To: Murray, David
Subject: dayne walling/request for comment

Dave:
I'm attaching an op-ed that Flint Mayor Dayne Walling has given MLive-The Flint Journal. I'm writing a story about his request that the governor visit Flint.
I did hear back from Terry Stanton the last time we asked for a response to the mayor's water improvement plan and I used his comments, however Walling has told me since that he's expecting a response from the governor himself and I'll probably be using that in the story I'm working on also.

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

By Flint Mayor Dayne Walling

Access to safe and clean water is a basic human right. And a citizen's right to safe drinking water should not be based on how much money you earn, the neighborhood you live in or if your local government is under the control of an emergency manager.

All citizens have a fundamental right to know that such a critical resource as their water supply is safe and accessible. But that is not happening in Flint at the moment.

That is why, on January 18th, I forwarded a request that Governor Snyder adopt my Flint Water Improvement Plan. My plan, focused on the areas of safety, quality, access, investment and education, starts by calling for 100 percent safety as the standard for water.

The plan calls for reporting of water testing to the public by city officials, an amnesty program to reduce fees for Flint water turn-ons, accelerated water system capital improvements and partnerships with community organizations to help with water payment assistance. I'm also reaching out to other state and elected officials for support.

The request comes as residents, as evidenced in a series of recent community meetings, continue to have concerns about the quality of Flint's water. Earlier in 2014, several boil-the-water advisories were issued by the city because of issues with bacteria found in water in some parts of Flint. Gov. Snyder's appointed emergency manager recently told customers that Flint was in violation of the Safe Drinking Water Act because of the high level of trihalomethane (TTHM) -- a byproduct of chlorination -- in drinking water samples last year.

A contradictory order from the city saying the water was safe but could present risks for infants, the elderly and those with compromised immune systems confused residents further and compounded the worries of Flint's vulnerable populations. Marry that with costly water rates that have threatened individuals' access and you have the crisis of concern and confidence swirling in Flint today.

Sadly, because Flint is under Michigan's controversial emergency manager system of governance, locally elected officials have been largely limited to serving as sounding boards to justifiably worried Flint residents.

This is unacceptable. Not only should Governor Snyder visit Flint in the midst of this ongoing crisis, but his administration should make it the priority that the community expects.

It's time for the Snyder administration to do what is best for the citizens of Flint---immediately. There is nothing more important in Flint right now than fixing the water problems.

This will take time and money so the sooner the new investments are made, the better.

From: Wurfel, Sara (GOV)
Sent: Friday, January 30, 2015 12:01 PM
To: Katie Carey
Subject: RE: Rep Neeley's Release

Thanks, Katie -- appreciate the note and heads up.

Though just making sure that you clearly do know this was something the city repeatedly pushed and asked for, that we're working collectively with the Flint community already to help address as best possible.

Thanks,
SW

From: Katie Carey [mailto:kcarey@house.mi.gov]
Sent: Friday, January 30, 2015 11:46 AM
To: Wurfel, Sara (GOV)
Subject: Rep Neeley's Release

Sara –

Just wanted to give you a heads up that Rep Neeley sent a letter to the Gov and asked that I send out the following press release re the water situation in Flint.

FOR IMMEDIATE RELEASE
Friday, Jan. 30, 2015

Contact: Rep. Sheldon Neeley
Phone: (517) 373-8808

Neeley Sends Letter to Governor Concerning Flint Water Crisis

Legislator asks Gov. Snyder to consider plans to fix water system

LANSING – State Representative **Sheldon Neeley** (D-Flint) has sent a letter to Gov. Rick Snyder, as well as his chief of staff, Dennis Muchmore, and his senior advisor, Dick Posthumus, to inform them of the current crisis affecting the city of Flint's water supply. Residents have spoken out about the quality of the water, calling it unsafe to drink. Photos taken by residents and Flint media have shown the water to be brownish in color, with sediment and other foreign bodies floating in it.

"In light of the rising and continuous concerns in the Flint community, it is imperative that the governor explores all options in his power to come to the aid of the community," Neeley said.

In the letter, Rep. Neeley asks for an executive decision by the governor to forgive Flint's water fund loan balance of nearly $20.8 million so that those funds may be used to help the city rebuild the infrastructure as well as provide a cost-effective water delivery system.

With this loan forgiveness, Rep. Neeley explains the city will be able to upgrade wastewater treatment processes, improve safe drinking water upgrades and maintain a water system that provides better water to the citizens of Flint.

"The people of Flint elected me to serve them first, and when I see my constituents on the verge of civil unrest, I must act swiftly and with passion," Neeley said. "I am hopeful this letter will bring the concerns of Flint to Gov. Snyder, and that will in turn open a dialogue about what can be done to help the community I love so much."

###

Katie Carey
Deputy Director of Democratic Central Staff
Press Secretary, House Democratic Leader Tim Greimel & the House Democratic Caucus
517.373.8924 (office)
PPI (cell)
kcarey@house.mi.gov

From: Wurfel, Sara (GOV)
Sent: Tuesday, March 10, 2015 5:14 PM
To: Brown, Jessica (GOV)
Subject: FW: PIO report

FYI

From: Wurfel, Brad (DEQ)
Sent: Tuesday, March 10, 2015 12:06 PM
To: Murray, David (GOV); Agen, Jarrod (GOV); Wurfel, Sara (GOV)
Cc: Holton, Jennifer (MDA); Golder, Edward (DNR); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Tommasulo, Karen (DEQ)
Subject: PIO report

Not Responsive

3. **Flint Water:** had a meeting yesterday with a company Baird put in the room to discuss their ozone technology. It was a good conversation but a non-starter for several reasons (Flint already has an Ozone system to modify its water, this company hasn't had its system certified for use on public drinking water supplies, and the problem they propose to address is not at the water plant but throughout various sections of the distribution system). More broadly, Harvey is looking for a 'thing' the state can be doing for Flint that will position SOM / RS positively. Suggestions range from handing out home water filters (think Britta faucet mount) to passing out jugs of water. After consulting with our experts in the Drinking water program, what we've really come to at DEQ is that if there's funding from treasury (or some charitable donor foundation), the best short-term use of dollars would probably be to hire a company to 'pig' the lines in the distribution system. This is a routine maintenance activity in municipal systems that involves an in-line device under pressure that clears funk out of the lines. **The good news on Flint**: Flint EM Jerry Ambrose noted yesterday that the city has some work to do on its system in the weeks ahead; the TTHM issue is quickly going away; the 'brown water' folks are loud but really few in number; the consultants are doing their work to make suggestions to help the city prioritize its needs; and, broadly, nobody seems to be targeting the administration recently.

Not Responsive

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713
PPI cell

From: Wurfel, Sara (GOV)
Sent: Tuesday, March 10, 2015 5:17 PM
To: Brader, Valerie (GOV); Beth Clement
Subject: FW: DEQ report

FYI

From: Wurfel, Brad (DEQ)
Sent: Tuesday, March 10, 2015 12:06 PM
To: Murray, David (GOV); Agen, Jarrod (GOV); Wurfel, Sara (GOV)
Cc: Holton, Jennifer (MDA); Golder, Edward (DNR); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Tommasulo, Karen (DEQ)
Subject: PIO report

Not Responsive

3. **Flint Water:** had a meeting yesterday with a company Baird put in the room to discuss their ozone technology. It was a good conversation but a non-starter for several reasons (Flint already has an Ozone system to modify its water, this company hasn't had its system certified for use on public drinking water supplies, and the problem they propose to address is not at the water plant but throughout various sections of the distribution system). More broadly, Harvey is looking for a 'thing' the state can be doing for Flint that will position SOM / RS positively. Suggestions range from handing out home water filters (think Britta faucet mount) to passing out jugs of water. After consulting with our experts in the Drinking water program, what we've really come to at DEQ is that if there's funding from treasury (or some charitable donor foundation), the best short-term use of dollars would probably be to hire a company to 'pig' the lines in the distribution system. This is a routine maintenance activity in municipal systems that involves an in-line device under pressure that clears funk out of the lines. **The good news on Flint**: Flint EM Jerry Ambrose noted yesterday that the city has some work to do on its system in the weeks ahead; the TTHM issue is quickly going away; the 'brown water' folks are loud but really few in number; the consultants are doing their work to make suggestions to help the city prioritize its needs; and, broadly, nobody seems to be targeting the administration recently.

Not Responsive

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713
PPI cell

From: Wurfel, Sara (GOV)
Sent: Tuesday, March 24, 2015 10:44 AM
To: Hollins, Harvey (GOV); Dennis Muchmore; Beth Clement
Cc: Agen, Jarrod (GOV); Murray, David (GOV)
Subject: FW: PRESS RELEASE: EM Statement on Flint's Water
Attachments: EM Statement on Water 3.24.2015.pdf; EM Letter to Treasury Regarding Water.PDF

FYI just in case.

What is latest on our involvement in this issue and coordination with Flint EM?

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Tuesday, March 24, 2015 10:35 AM
Subject: PRESS RELEASE: EM Statement on Flint's Water

For Immediate Release

Emergency Manager Statement on Water: Spending Extra $12 Million on Detroit Water "Incomprehensible" When Flint Water Just as Safe

Flint, Michigan – March 24, 2015 – At the City Council meeting held on Monday, March 23, 2015, Flint City Council made a motion to "do all things necessary" to return to using water purchased from Detroit and discontinue use of the Flint River as a water source. The following statement from Emergency Manager Gerald Ambrose addresses that point:

"Flint water today is safe by all EPA and MDEQ standards and the City is working daily to improve its quality. Users also pay some of the highest rates in the state because of the decreased numbers of users and the age of the system.

"It is incomprehensible to me that 7 members of the Flint City Council would want to send more than $12 million a year to the system serving southeast Michigan, even if Flint rate payers could afford it. Water from Detroit is no safer than water from Flint.

"If $12 million annually were available for discretionary use, it would be far better spent reducing rates paid by Flint customers and/or modernizing the City's system."

-Gerald Ambrose,

Flint Emergency Manager

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

Gerald Ambrose
Emergency Manager

Dayne Walling
Mayor

Jason Lorenz
Public Information Officer
(810) 237-2039
jlorenz@cityofflint.com

For Immediate Release

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"If $12 million annually were available for discretionary use, it would be far better spent reducing rates paid by Flint customers and/or modernizing the City's system."

-Gerald Ambrose,
Flint Emergency Manager

–END–

CITY OF FLINT

OFFICE OF THE EMERGENCY MANAGER

Gerald Ambrose
Emergency Manager

TO: Wayne Workman, Deputy Treasurer
Treasury Department
State of Michigan

FROM: Jerry Ambrose, Emergency Manager
City of Flint

DATE: March 3, 2015

As the Emergency Manager for the City of Flint, I am charged with restoring the City government to financial solvency, and working to assure that the City moves forward on a financially sustainable basis. The steps taken over the past three years have been difficult. Taxes and fees have been raised, services and workforce reduced, and ongoing costs, including legacy costs, have been constrained.

The current controversy surrounding the provision of water, and the path for resolution, has a potentially significant impact on the progress that is being made. I am satisfied that the water provided to Flint users today is within all MDEQ and EPA guidelines, as evidenced by the most recent water quality results conducted for MDEQ. We have a continuing commitment to maintain water safety and to improve water quality, and have dedicated resources to assure this commitment will be made.

The oft-repeated suggestion that the City should return to DWSD, even for a short period of time, would, in my judgment, have extremely negative financial consequences to the water system, and consequently to the rate payers. By the most conservative estimates, such a move would increase costs by at least $12 million annually, with that amount achieved only by eliminating virtually all budgeted improvements in the system. For a system with Unrestricted Assets of only $740,745, according to the June 30, 2014 audited financial statements, the only recourse within the City's control would be to increase revenues significantly. And in my judgment, that would come from raising rates for water by 30% or more . Further, changing the *source* of the city's water would not necessarily change any of the *aesthetics* of the water, including odor and discoloration, since those appear to be directly related to the aging pipes and other infrastructure that carry water from the treatment facility to our customers.

This direction of discussion also deviates from what, in my judgment, should be the focus: How can we not only operate and maintain a system to assure the delivery of safe and quality water dependably, but significantly reduce the cost of water and sewer to the users? At an average of $149 per month for water and sewer service for a residential user, the cost is extremely high in comparison to surrounding areas, as well as most areas across the state, and creates a significant financial burden for many users. In my judgment, we should all be concentrating on how to reduce rates by 50% or more. Unfortunately, there are no easy or evident answers, and continuation of the status will be an impediment to the sustainable recovery of the City of Flint. It is a conversation that I expect we will have with the recently created Water Quality Advisory Committee.

My reasoning for this conclusion is as follows:

One of the decisions made in the context of beginning to eliminate deficits and to restore financial stability to the City of Flint was to increase water and sewer rates significantly – the only choice available to financially stabilize a system that as of June 30, 2012, had a deficit of $8,758,091. Another was to leave DWDS for the KWA because it offered the opportunity to lower future rate increases. A third decision was to utilize the Flint River on an interim basis when DWSD unilaterally terminated the City's contract for water purchase. That decision was made because it also offered an immediate cost savings opportunity which translated into the ability to upgrade the Water Treatment Plant without having to seek financing. It was a reasonable decision because of our experience in using the river in a back-up capacity, including test runs on a quarterly basis for several decades.

Unfortunately, the switch to the river as a primary source was more challenging than anticipated, and the harsh winter of 2013-2014 resulted in much more damage to the aging water infrastructure than in previous years. The result was the issuance of required notices that water exceeded established guidelines for safety as it could affect certain vulnerable populations, and some users of the system experienced unpleasant odors and discoloration. Some users also appeared to have had some negative reactions to the new source of water. However, as soon as the test results were known, City staff took immediate actions to address the concerns. These actions are evidenced today by the fact that MDEQ has certified that our most recent testing shows water from all testing sites to be well within acceptable guidelines. Additionally, the City is continuing to taking the necessary actions to assure that the water supply remains safe and that water quality continues to improve.

As the City has moved to address the situation, the suggestion continues to be made that the City should re-engage with DWSD and purchase water at least until the KWA pipeline is supplying water. As evidenced by the most recent letter from DWSD, such a decision would immediately increase the City's cost by $846,700 per month, or $10,160,400 per year, just for the fixed cost portion of the price. The actual *purchase* of water would be an additional fee, and dependent upon

the quantity purchased. We estimate the actual water purchase cost to average more than $1 million per month, for a grand total of approximately $22 million per year. Finally, the DWSD offer is conditioned upon the City (or presumably the KWA) agreeing to negotiate a long term contract (30 years) for back-up.

The $22 million annual estimate of increased costs to purchase water from DWSD would be minimally offset by an approximate $3 million in reduced operating costs, and could be further offset by an additional $9 million, but only if all funding for capital improvements to the system are eliminated. To eliminate all funding dedicated to repairing, stabilizing, and improving the system would be totally irresponsible and would have long term negative consequences to the City and to future rate payers.

As you are aware we have recently brought in outside expert assistance to evaluate the steps we have taken to assure that the water is safe and to continue to improve water quality. We are expecting specific recommendations within the next few weeks, and are committed to implementing those recommendations in a timely manner. Many steps have already been taken. I am confident that implementing their recommendations will assure a continuing supply of safe water as well as improved quality, and at far less cost than re-engaging DWSD.

We have also created a 40-member Water Advisory Committee and a 13-member Technical Advisory Committee to assure two-way communication with the public and users of the system. Those committees will begin to meet this week, and we look forward to answering their questions and receiving their input.

It is unfortunate that problems and concerns with quality have arisen, and we are working every day to address the issues that caused them. Maintaining safe water and improving quality is a top priority as we work to make the City of Flint an attractive place to live, work, study, and play.

From: Wurfel, Sara (GOV)
Sent: Friday, March 27, 2015 10:15 AM
To: Brad Wurfel - DEQ (WurfelB@michigan.gov); Terry Stanton - Treasury; Murray, David (GOV)
Subject: FW: MEDIA ADVISORY: DPW Water Quality Update

Do we have any details on this front?

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Friday, March 27, 2015 8:31 AM
Subject: MEDIA ADVISORY: DPW Water Quality Update

FOR PLANNING PURPOSES ONLY

MEDIA ADVISORY: The City of Flint Department of Public Works will be providing the media with an update on water quality.

WHEN: Friday, March 27, 2015 at 2:00pm

WHERE: Mayor's Office Conference Room, Flint City Hall

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

From: Wurfel, Sara (GOV)
Sent: Wednesday, April 08, 2015 2:31 PM
To: Murray, David (GOV); Brad Wurfel - DEQ (WurfelB@michigan.gov); Terry Stanton - Treasury
Subject: FW: PRESS RELEASE: Flint Water Improvements
Attachments: Flint Water Improvements 2015.pdf

FYI

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Wednesday, April 08, 2015 12:04 PM
Subject: PRESS RELEASE: Flint Water Improvements

For Immediate Release

City of Flint Announces Action Plan to Maintain Safety and Improve Quality of Flint Water

Flint, Michigan – April 8, 2015 – The City of Flint is proceeding with a series of actions to ensure the continued safety of Flint drinking water is maintained and that issues of discoloration and odor continue to be addressed. Most notably, the installation of a Granulated Active Charcoal filter (GAC) at the Water Treatment Plant is expected to be authorized this week by Emergency Manager Jerry Ambrose.

The introduction of the GAC to the treatment process at Flint's plant will absorb or reduce the chemical precursors which will block or eliminate the formation of TTHM during the filtration process. Engineering and design are underway and installation of the GAC is targeted for completion by mid-July. Cost of this improvement is projected at $1.5 million and will be paid for by the proceeds from the state approved restructuring of the City's Drinking Water Revolving Fund loans.

In addition to the installation of the GAC, the City of Flint is undertaking a number of other improvements to the water system in the coming months, including a water leak detection monitoring, completion of the hydraulic model and subsequent targeted hydrant flushing program, and the replacement of two miles of water main pipe in a critical area of the city. All of these improvements scheduled to occur within the next six months.

"The replacement of this two mile section of pipe along Dupont Street has been identified by a water reliability

study as a significant piece of infrastructure and will greatly improve the movement of water in that area of the city," said Dept. of Public Works Director Howard Croft. Increasing the circulation of the water in the system will immediately result in improvements in water aesthetics, such as discoloration and odor. The MDEQ has given its approval to the project and the process of bidding for construction will begin next week. Construction will take place during the summer of this year.

Ongoing repairs and maintenance also continue to improve the health of the system. To date, about 200 water main breaks have been repaired this year. Whenever major work that may disrupt service is scheduled, the City works to notify residents in the affected area with signage and with posts to cityofflint.com. Updates will include the area of work and the estimated time of completion.

Each main break repair stirs sediments in the line. "Residents should know that there is a chance of discoloration or odor any time work is being done on a main in their area," said Croft. "This is nothing to be alarmed about and it doesn't mean the water is unsafe." If discoloration of water or odor occurs due to repairs, residents are reminded that running the water for a few minutes should clear the line. Anyone with water questions should call 810-787-6537.

The City of Flint remains committed to addressing water related issues. Along with maintaining the safety of the water, addressing quality and affordability are top priorities. The steps outlined above are indicators of the City's progress in addressing the most pressing concerns surrounding water. Emergency Manager Ambrose reiterated that development of a contract with DWSD was not going to happen.

"Those advocating for a return to DWSD do not want to recognize the financial realities of such a move. Not only would such a move increase the City's costs by more than $1million per month, but the water from Detroit is no safer than Flint water, as both entities are measured by the same MDEQ standards that have been in place for years. Why anyone would want to send a million dollars a month to DWSD rather than make necessary repairs to the City's own system is beyond me."

Further updates on the progress being made to improve Flint's water system will released in regular updates to the media and in updates to the City's website, cityofflint.com. Anyone wishing to report an issue can do so under "Online Services". Anyone with questions about these or any other water issues should call the water treatment plant at 810-787-6537.

–END–

-Jason Lorenz
Public Information Officer

City of Flint
(810) 237-2039
jlorenz@cityofflint.com

Gerald Ambrose
Emergency Manager

Dayne Walling
Mayor

Jason Lorenz
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–CONTINUE–

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–END–

From: Wurfel, Sara (GOV)
Sent: Thursday, September 10, 2015 3:31 PM
To: Wurfel, Brad (DEQ)
Subject: Re: Reporter seeking a response to Virgnia Tech's Flint Water Study findings

Tried to get you multiple times today. No answer. Back at desk. Call.

Sent from my iPhone

On Sep 10, 2015, at 3:12 PM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:

> Need a phone call to discuss this with either of you.
>
> Thanks.
>
> b

From: Curt Guyette [mailto:cguyette@aclumich.org]
Sent: Thursday, September 10, 2015 2:41 PM
To: Wurfel, Brad (DEQ)
Subject: Reporter seeking a response to Virgnia Tech's Flint Water Study findings
Importance: High

Dear Mr. Wurfel,

After testing more than 250 homes in Flint, researchers at Virginia Tech have continued to find dangerously high levels of lead in many of the homes being sampled.

They are unequivocal in their findings, stating that: "Flint has a very serious lead in water problem."

These results run contrary to the city and MDEQ's assertions that the city of Flint is in compliance with U.S. EPA Lead and Copper Rule compliance standards. In fact, based on Virginia Tech's results – which are much more extensive, having tested nearly four times as many homes as the city tested during the first half of 2015, and the VT researchers have not specifically target high-risk homes, as the city is required to do for the LCR monitoring – the city is actually well out of compliance.

I was hoping you would be able to provide the MDEQ's position regarding VT researchers' purported findings, and the contradictory conclusions..

Virginia Tech's methodology and results have been posted on a web site dedicated to the project (flintwaterstudy.org/), so it is clear from their end how they have approached this project, and exactly what they've done, and what they've found.

It would be very helpful to have the MDEQ's views on all this for my upcoming story.

I am working on a deadline and would very much appreciate a response by the end of the day tomorrow, Sept. 11.

I appreciate any help you can provide in my reporting on this very important public health issue.

Sincerely,

Curt

From: Wurfel, Sara (GOV)
Sent: Friday, September 18, 2015 10:41 AM
To: Murray, David (GOV)
Subject: FW: Ananich Flint Water Response
Attachments: Flint Water Response.pdf

Making sure you have this too …

From: Pallone, Maggie (DEQ)
Sent: Thursday, September 17, 2015 3:55 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Brown, Eric (GOV) <BrownE15@michigan.gov>; Ackerman, Darin (GOV) <ackermand3@michigan.gov>
Cc: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>
Subject: Ananich Flint Water Response

Here is DEQ's formal response to the Michigan legislators inquiry on Flint water. FYI only, this is going out momentarily. We are also briefing them in person on Monday morning.
Give me a call if you have any questions.
Thanks,
Maggie

From: Feuerstein, Heather (DEQ)
Sent: Thursday, September 17, 2015 3:48 PM
To: Pallone, Maggie (DEQ) <PalloneM@michigan.gov>
Subject: Flint Water Response

Here is the letter to Senator Ananich and Reps Neeley and Phelps.

Heather Feuerstein
Management Assistant to
Maggie Pallone, Deputy Director and
Brad Wurfel, Communications Director
Department of Environmental Quality
517.284.6715

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING

RICK SNYDER
GOVERNOR

DAN WYANT
DIRECTOR

September 17, 2015

VIA E-MAIL

The Honorable Jim Ananich
State Senator
State Capitol
P.O. Box 30036
Lansing, Michigan 48909-7536

The Honorable Sheldon Neeley
State Representative
State Capitol
P.O. Box 30014
Lansing, Michigan 48909-7514

The Honorable Phil Phelps
State Representative
State Capitol
P.O. Box 30014
Lansing, Michigan 48909-7514

Dear Senator Ananich and Representatives Neeley and Phelps:

Thank you for your letter of September 10, 2015, regarding water quality in the city of Flint (City). Your interest in this matter is appreciated. The Michigan Department of Environmental Quality (MDEQ) takes seriously its responsibility to ensure safe drinking water for all Michigan residents. The MDEQ maintains a robust public water supply regulatory program through long-standing partnerships with the United States Environmental Protection Agency (USEPA) and the state's regulated public water systems.

With respect to the draft memo referenced in your letter, the MDEQ does not review or receive draft memos from the USEPA, nor would we expect to while it is a draft.

Regulations associated with lead, copper, and corrosion control require communities to monitor water quality at customer taps. The monitoring protocols for sampling home water attempt to represent actual home water use, and they allow the MDEQ to get consistent results for year-over-year comparisons.

It is important to recognize that any home with lead plumbing or service connections will impart some amount of lead to water samples. While the compliance monitoring for lead in the City has not exceeded the federally-established Action Level, either before or after the City switched sources and treatment methods, there has always been

detectable lead in the City's water sampling program for homes that have lead plumbing or service connections. The City's monitoring program's purpose is to show aggregated levels throughout the entire system, not individual home levels.

The law requires the City to provide individual lead results to customers whose homes are sampled for compliance with the Action Level. Each customer with an individual sample result that exceeds 15 parts per billion is provided information on actions they can take to limit lead exposure in their drinking water. System-wide results from the most recent lead compliance monitoring are included each year in the City's annual Consumer Confidence Report, which is provided to customers and available online.

It is important to note that the City performed extensive home water tests for lead and copper last year and this year, and is meeting state and federal drinking water standards. Local health departments also administer annual blood level testing on children in Flint; results show no discernable rise in levels that might be expected if there was an elevated lead level in the City water supply. The City currently has no unresolved violations of state and federal drinking water standards.

The MDEQ continues to work with the City and federal regulators on the shared goal of ensuring safe, reliable drinking water in this community.

I look forward to discussing this issue in greater detail at the meeting next week. If you should have additional questions before then, please contact Ms. Maggie Pallone, Deputy Director, Policy and Legislative Affairs, at 517-284-6715 or pallonem@michigan.gov; or you may contact me.

Sincerely,

Dan Wyant
Director
517-284-6700

cc: U.S. Representative Dan Kildee
Mayor Dayne Walling, City of Flint
Mr. Howard Croft, City of Flint
Dr. Susan Hedman, Regional Administrator, USEPA, Region 5
Mr. Thomas Poy, USEPA, Region 5
Ms. Denise Fortin, USEPA, Region 5
Mr. Michael Schock, USEPA
Mr. Darren Lytle, USEPA
Mr. Marc Edwards, Virginia Tech
Mr. Harvey Hollins, Governor's Southeast Michigan Office
Mr. Bill McBride, Governor's Washington Office
Mr. Eric Brown, Governor's Washington Office
Mr. Jim Sygo, Chief Deputy Director, MDEQ
Ms. Madhu R. Anderson, Deputy Director, MDEQ
Ms. Maggie Pallone, Deputy Director, MDEQ
Ms. Sarah M. Howes, Legislative Liaison, MDEQ
Mr. Brad Wurfel, Communications Director, MDEQ
Ms. Liane Shekter Smith, MDEQ
Mr. Richard Benzie, MDEQ
Mr. Stephen Busch, MDEQ
Mr. Pat Cook, MDEQ

From: Wurfel, Sara (GOV)
Sent: Thursday, September 24, 2015 3:25 PM
To: Muchmore, Dennis (GOV)
Subject: Accepted: FW: Conf Call re Flint Water

From: Wurfel, Sara (GOV)
Sent: Thursday, September 24, 2015 4:26 PM
To: Kaffer, Nancy
Subject: Re: Flint water

Just so you know ... that's not accurate history, Nancy. This change was pushed and direct request of Genesee Co Board of Commissioners AND city council (7-1) and mayor at the time. We had severe reservations about switch but ultimately was nearly unanimous request from local local level that Treasury signed off on. (And FYI double checking, but nearly certain EM at time was not Darnell E.)

Not that any of that matters, Nancy.
The bottom line is that we have been working hard to do everything possible to play a supportive role and work in collaborative fashion across all levels of government with community, faith & business leaders, residents, etc.

Protecting public health is paramount and safe, clean, accessible drinking water is essential. That's what we solely focused on helping ensure.

Highly recommend you reach out to state Health & Human Services team for how this data set was spliced and diced. That's key to understanding. They can walk through for you and Freep team.

Thanks much,
SW

Sent from my iPhone

On Sep 24, 2015, at 3:37 PM, Kaffer, Nancy <nkaffer@freepress.com> wrote:

> Hey Sara – comment on this elevated lead in the Flint water system? Specifically because the Flint EM is the one who made the decision to hook up to the Flint … the same Flint EM who is now DPS EM, correct?
>
> _____
> Nancy Kaffer
> Columnist
> Detroit Free Press
> www.freep.com/abettermichigan
> 313-222-6585
> @nancykaffer, @abettermi

From: Wurfel, Sara (GOV)
Sent: Thursday, September 24, 2015 4:27 PM
To: Murray, David (GOV)
Subject: Fwd: PHONE MESSAGE: Nina Sika WNEM TV 5

Sent from my iPhone

Begin forwarded message:

> **From:** "LaHaie, Alyssa (GOV)" <LaHaieA@michigan.gov>
> **Date:** September 24, 2015 at 4:21:30 PM EDT
> **To:** "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>
> **Subject: PHONE MESSAGE: Nina Sika WNEM TV 5**
>
> Name: Nina Sika
> Outlet: WNEM TV 5
> Topic: Hoping to talk to you about the Hurley Medical Center press conference that just took place regarding Flint Water to see if the Governor had heard about it and had any reactions or thoughts.
> Phone: 989-758-2044
> Email: nina.sika@wnem.com
> Deadline: By 11pm this evening

From: Wurfel, Sara (GOV)
Sent: Friday, September 25, 2015 8:54 AM
To: Murray, David (GOV); Wurfel, Brad (DEQ); Minicuci, Angela (DCH); Stanton, Terry A. (Treasury)
Subject: Fwd: PRESS BRIEFING: Health Information for Residents on Water

FYI

Dave - please followup and see if we can get more on content, unless someone knows already.

Sent from my iPhone

Begin forwarded message:

> **From:** Jason Lorenz <jlorenz@cityofflint.com>
> **Date:** September 25, 2015 at 8:15:46 AM EDT
> **To:** Jason Lorenz <jlorenz@cityofflint.com>
> **Subject: Re: PRESS BRIEFING: Health Information for Residents on Water**
>
> **UPDATE: Flint Mayor Dayne Walling will also be in attendance for today's briefing.**
>
> -Jason Lorenz
> Public Information Officer
> City of Flint
> (810) 237-2039 (Office)
> PPI (Cell)
> jlorenz@cityofflint.com
>
> On Thu, Sep 24, 2015 at 5:18 PM, Jason Lorenz <jlorenz@cityofflint.com> wrote:
> **PRESS BRIEFING: Health Information for Residents on Water will be shared with the press.**
>
> **WHEN: Friday, September 25, 2015 at 10:00am**
>
> **WHERE: Mayor's Office Conference Room**
>
> **Details: City Administrator Natasha L. Henderson and Department of Public Works Director Howard Croft will be joined by officials from the Genesee County Health Department to share important health information for Flint residents on water.**

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI (Cell)
jlorenz@cityofflint.com

From: Wurfel, Sara (GOV)
Sent: Friday, September 25, 2015 4:22 PM
To: Murray, David (GOV)
Subject: Fwd: Flint water

Calling you about this one ...

Sent from my iPhone

Begin forwarded message:

> **From:** "Kaffer, Nancy" <nkaffer@freepress.com>
> **Date:** September 25, 2015 at 4:14:19 PM EDT
> **To:** "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>
> **Subject: FW: Flint water**
>
> Deadline question for a column due today. :)
>
> _____
> Nancy Kaffer
> Columnist
> Detroit Free Press
> www.freep.com/abettermichigan
> 313-222-6585
> @nancykaffer, @abettermi
>
> -----Original Message-----
> From: Kaffer, Nancy
> Sent: Friday, September 25, 2015 2:54 PM
> To: 'Wurfel, Sara (GOV)' <Wurfels@michigan.gov>
> Subject: RE: Flint water
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> Hi Sara - A little confused by your response. Not sure if Darnell Earley was EM when the decision was made to use Flint River -- It may have been Michael Brown? He was EM when the decision was made to join the KAregnondi Water Authority but I'm not sure about the decision to switch to Flint River water and stop using DWSD, but regardless, he's an EM appointed by the governor -- but I'm unclear why you guys would sign off on something as important about the integrity of an entire city's water supply if you had "severe reservations"? Any light you could shed on that would be much appreciated.
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> Also, not clear what the Genesee Board of Commissioners has to do with it? They're a separate water customer and have continued to use DWSD while Karegnondi is under construction.
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> Our data analyst has been in contact with HHS. Story on that is forthcoming.
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-----Original Message-----
From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Thursday, September 24, 2015 4:26 PM
To: Kaffer, Nancy <nkaffer@freepress.com>
Subject: Re: Flint water

Just so you know ... that's not accurate history, Nancy. This change was pushed and direct request of Genesee Co Board of Commissioners AND city council (7-1) and mayor at the time. We had severe reservations about switch but ultimately was nearly unanimous request from local local level that Treasury signed off on. (And FYI double checking, but nearly certain EM at time was not Darnell E.)

Not that any of that matters, Nancy.
The bottom line is that we have been working hard to do everything possible to play a supportive role and work in collaborative fashion across all levels of government with community, faith & business leaders, residents, etc.

Protecting public health is paramount and safe, clean, accessible drinking water is essential. That's what we solely focused on helping ensure.

Highly recommend you reach out to state Health & Human Services team for how this data set was spliced and diced. That's key to understanding. They can walk through for you and Freep team.

Thanks much,
SW

Sent from my iPhone

On Sep 24, 2015, at 3:37 PM, Kaffer, Nancy
<nkaffer@freepress.com<mailto:nkaffer@freepress.com>> wrote:

Hey Sara - comment on this elevated lead in the Flint water system? Specifically because the Flint EM is the one who made the decision to hook up to the Flint ... the same Flint EM who is now DPS EM, correct?

_____
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From: Wurfel, Sara (GOV)
Sent: Friday, September 25, 2015 5:09 PM
To: Kaffer, Nancy
Subject: Re: Flint water

Ed Kurtz was the EM at the time. Important to remember that the emergency manager had the final say - with ultimate sign off by Treasury-on making the change, but also did so at the strong urging of Flint city leaders. This was not a decision that was forced upon the city. Exact opposite actually.

Emergency managers often try to work closely with mayors and city councils, getting recommendations from the local communities they are serving. The decision to make the switch during the construction of the Karegnondi pipeline came after an 8-1 vote by the City Council and strong endorsement by the mayor and Genesee County leaders. The move also came after a series of upgrades to Flint's water treatment plant, testing and an independent analysis of water rates and quality.

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From: Wurfel, Sara (GOV)
Sent: Friday, September 25, 2015 5:15 PM
To: Kaffer, Nancy
Subject: Re: Flint water

Having Terry Stanton at Treasury call your cell now to walk you through the state's emergency manager law and time frames for Flint during this entire time period.

Sent from my iPhone

> On Sep 25, 2015, at 5:10 PM, Kaffer, Nancy <nkaffer@freepress.com> wrote:
>
> Sara, that's just not true. News stories from the time the switch was made clearly show that Darnell Early was EM.
>
> _____
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> Columnist
> Detroit Free Press
> www.freep.com/abettermichigan
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>>

From: Wurfel, Sara (GOV)
Sent: Monday, September 28, 2015 1:20 PM
To: Murray, David (GOV); Lasher, Geralyn (DCH); Wurfel, Brad (DEQ)
Subject: FW: Letter to Governor Snyder: Flint Water
Attachments: 09.28.2015-Letter-Ananich-Snyder-Water-Requests.pdf

Looping you in too …

Need a follow-up call on this issue to chat and make sure we're all on same page asap.

From: Muchmore, Dennis (GOV)
Sent: Monday, September 28, 2015 12:05 PM
To: Mcbride, Bill (GOV) <mcbrideb@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Lyon, Nick (DCH) <LyonN2@michigan.gov>; Wyant, Dan (DEQ) <WyantD@michigan.gov>
Subject: FW: Letter to Governor Snyder: Flint Water

Just came in

From: Andrew Leavitt [mailto:ALeavitt@senate.michigan.gov]
Sent: Monday, September 28, 2015 11:45 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: Letter to Governor Snyder: Flint Water

Hi Dennis,

Senator Ananich began drafting the attached letter on Sunday and thought it would be helpful to guide our 12pm call.

Thanks,

Andy

SENATE MINORITY LEADER
JIM ANANICH

517.373.0142
senjananich@senate.michigan.gov
senatedems.com/ananich

September 28, 2015

State of Michigan
Executive Office of the Governor
P.O. Box 30013
Lansing, MI 48909

Governor Snyder,

Access to safe, affordable drinking water is a basic necessity for every community. It is completely unacceptable that respected scientific experts and our trusted local physicians have verified that the City of Flint's drinking water is dangerous for our citizens, especially our most vulnerable young people.

As a result, I am formally requesting assistance as suggested by the experts on the frontline of this public health crisis. Here are the top priorities we should work together to address:

1. **Swift transfer to a safe source of water until the Karegnondi Water Authority (KWA) project is complete next year.** Your administration has the ability to ensure a financially acceptable and responsible contract between Flint and the Detroit Water and Sewerage Department, particularly in light of the public health implications with the Flint River supply.

2. **Equally urgent is the need for corrosion control as recommended by independent scientific experts.** There are chemical treatment additives that could help reduce this corrosion. I urge you to help the city implement anti-corrosion methods immediately. The current emergency makes the January timeline unacceptable.

3. **Filters and bottled water assistance.** Flint water touches the entire city. Whether it's a person's home, work, school, restaurant or place of worship, access to safe, clean drinking water should not be hindered. Water filters, used in conjunction with corrosion control methods, are necessary to help guard against toxic exposure.

   I have been working with the philanthropic community and private sector to secure donations to acquire filters and water; however, more funds will be necessary to effectively cover the thousands of residents impacted. I would like to formally request emergency funding to help supplement the acquisition of water filters and bottled water. Any and all appropriate state or federal money to help accomplish this feat should be considered.

SENATE MINORITY LEADER
JIM ANANICH

517.373.0142
senjananich@senate.michigan.gov
senatedems.com/ananich

4. **Support for completion of the KWA pipeline.** It is presumed that the upcoming KWA pipeline will solve a number of problems associated with the current sourcing of Flint's water from the Flint River. I am requesting a meeting between representatives from your office, KWA board members and project engineers to discuss any options to expedite the pipeline's construction.

5. **A long-term commitment to addressing outdated infrastructure.** A recent EPA report just outlined the billions of dollars necessary over the next several decades to adequately secure safe water for our entire state. You have the position and opportunity to be a national leader on moving the debate forward on this topic so that we can avoid the type of catastrophe my community is grappling with today.

I look forward to working with you to deliver on these concrete and urgent action items to alleviate the public health crisis facing our residents.

We jeopardize any progress and comeback for our cities and state if we cannot ensure safe, basic necessities for our families or if we cannot come together swiftly to fix an identified, severe threat to the safety of our people.

Sincerely,

Jim Ananich
Senate Democratic Leader
District 27

cc:
U.S. Representative Dan Kildee
Mayor Dayne Walling, City of Flint
Howard Croft, City of Flint
Susan Hedman, EPA
Thomas Poy, EPA
Michael Schock, EPA-ORD
Darren Lytle, EPA-ORD
Denise Fortin, EPA
Liane Shekter-Smith, MDEQ
Pat Cook, MDEQ
Stephen Busch, MDEQ
Brad Wurfel, MDEQ
Marc Edwards, Virginia Tech

From: Wurfel, Sara (GOV)
Sent: Monday, September 28, 2015 4:48 PM
To: 'Ryan Hermes'
Subject: RE: Flint Water

Hi there Ryan –

Gov. Snyder spoke with Sen. Ananich this morning about how the state can continue working with Flint city leaders. We believe protecting public health is paramount and safe, clean, accessible drinking water is essential . That's what we are focused on helping ensure and deeply share the Senator's commitment to helping address the issue. We just received the letter from the senator and are reviewing his ideas.

The governor and state agencies have been closely working with Flint leaders on their infrastructure challenges for months, including providing $4.2 million in grants and restructured loan financing to provide resources needed to locate and fix infrastructure problems and add the carbon filtration system, additional testing and helping identify and provide filters.

It's also important that people have accurate information about their health and water. The MI Depts of Environmental Quality and Health and Human Services are testing water and working with local agencies and Flint residents on issues related to what they can do if they have concerns about the pipes in their homes.

Thanks and hope this helps.
SW

From: Ryan Hermes [mailto:rhermes@learfield.com]
Sent: Monday, September 28, 2015 4:06 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint Water

Hi Sara,

Working up a quick story on Sen. Ananich's request that the state step in to help Flint with its water problem. Any statement from the governor on his request?

Thanks,

Ryan

Ryan Hermes
@RyanAHermes
Bureau Chief, Michigan Radio Network
T: 517-484-4888
C: PPI

From: Wurfel, Sara (GOV)
Sent: Monday, September 28, 2015 5:00 PM
To: 'Livengood, Chad'
Subject: RE: FOR IMMEDIATE RELEASE: Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

HI there Chad –

Saw that you called, but am trapped on a conf call at the moment.

On this issue and your Qs would say:

Gov. Snyder spoke with Sen. Ananich this morning about how the state can continue working with Flint city leaders. We believe protecting public health is paramount and safe, clean, accessible drinking water is essential . That's what we are focused on helping ensure and deeply share the Senator's commitment to helping address the issue. We are reviewing his ideas.

The governor and state agencies have been closely working with Flint leaders on their infrastructure challenges for months, including providing $4.2 million in grants and restructured loan financing to provide resources needed to locate and fix infrastructure problems and add the carbon filtration system, additional testing and helping identify and provide filters.

We understand that residents are frustrated, and also want to make sure they have accurate information and know where they can go if they have questions about their health and the water connections in their home. The health and safety of Flint residents is always the first priority, and that includes ensuring there is clean, safe drinking water -- especially for children. The MI Depts of Environmental Quality and Health and Human Services are testing water and working with local agencies and Flint residents on issues related to what they can do if they have concerns about the pipes in their homes.

{On background: You probably recall the issues and challenges re: the history with DWSD. It's also important to note that switching back to Detroit water will not necessarily have the effect that some expect. Flint has long-term challenges with its water infrastructure that need to be addressed.}

Thanks and hope this helps.
SW

From: Livengood, Chad [mailto:CLivengood@detroitnews.com]
Sent: Monday, September 28, 2015 4:15 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: FW: FOR IMMEDIATE RELEASE: Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

Sara,
Got a deadline question here about Senator Ananich's letter to the governor. Does he support having the city switch back to Detroit water until the Karegnondi pipeline is complete? Is there a plan being put together by the administration to deal with these elevated levels of lead in Flint children found by researchers at Hurley Medical Center? Can your characterize the governor's conversation with Senator Ananich today? Did he make any kind of commitment to take action?

-Chad

Chad Livengood
Capitol Reporter
The Detroit News
Lansing bureau: (517) 371-3660
Cell: PPI
clivengood@detroitnews.com
Twitter.com/ChadLivengood

From: Angela Wittrock [mailto:AWittrock@senate.michigan.gov]
Sent: Monday, September 28, 2015 2:48 PM
To: Angela Wittrock <AWittrock@senate.michigan.gov>
Subject: FOR IMMEDIATE RELEASE: Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

FOR IMMEDIATE RELEASE
September 28, 2015

Contact: Angela Wittrock
517.775.1430

Senate Minority Leader Jim Ananich Urges Governor, State Action in Flint

FLINT, Mich.—Senate Minority Leader Jim Ananich (D-Flint) issued the following statement:

"My constituents and I believe the state must act urgently to provide concrete solutions to the public health crisis in the City of Flint. In speaking with Governor Snyder and his key aides today, I stressed the need to work together on a number of initiatives that will ensure safe water for Flint residents.

"My formal request included immediate and long-term solutions, including strong consideration for switching back to the Detroit water source until the Karegnondi Pipeline Authority project is complete. Anything less than an aggressive, comprehensive approach is simply unacceptable."

A copy of Senator Ananich's letter to Governor Snyder can be viewed here.

###

Angela Wittrock
Press Secretary
Senate Minority Leader Jim Ananich

Boji Tower, Second Floor | Lansing, MI 48909-7536
P: 517.373.1339

C: **PPI**

Please sign up for our e-news at: Senatedems.com/Ananich
Facebook: jimananich | Twitter: @jimananich

From: Wurfel, Sara (GOV)
Sent: Monday, September 28, 2015 5:52 PM
To: Dennis Muchmore; Beth Clement; Agen, Jarrod (GOV); Hollins, Harvey (GOV); Mcbride, Bill (GOV)
Cc: Murray, David (GOV); Wendy Wisniewski
Subject: FW: Flint Water Issue - Rep. Kildee Letter Received By Federal Agencies
Attachments: 09-22-15 Kildee Requesting Temporary Assistance for Lead in Flint Water.pdf; Flint Pediatric Lead Concerns REVISED.PDF

Importance: High

Please see attached and below just in case … sounds like we should have follow up conversation with MSP team and make sure we're coordinating with DEQ, DHHS and Treasury.

From: Kelenske, Chris (MSP)
Sent: Monday, September 28, 2015 5:49 PM
To: Etue, Kriste (MSP) <EtueK@michigan.gov>; Gorski, Gary (MSP) <GorskiG@michigan.gov>; Smith, Paul (GOV) <SmithP29@michigan.gov>
Cc: Katarsky, Anthony (MSP) <KatarskyA@michigan.gov>; Leix, Ron (MSP) <LeixR@michigan.gov>; Banner, Shanon (MSP) <BannerS@michigan.gov>; Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Flint Water Issue - Rep. Kildee Letter Received By Federal Agencies
Importance: High

Attached are two documents for your information: 1) A letter from US Representative Kildee to Craig Fugate of FEMA, HHS, EPA, and CDC and 2) a PowerPoint on Flint water concerns. Essentially, Representative Kildee is requesting FEMA take action to resolve potable water quality issues associated with the Flint water system.

This is the first we heard of the letter and I actually found out from the FEMA Region V Director when he called me about an hour ago. He and I discussed a few things on this and he will respond advising they need to work through the local EM system in MI (engaging the local EM and then EMHSD). They also are working through the local health department as I confirmed with Dr. Scott from DHHS. If Flint needs water or want water the first step is to handle it locally (at least on the EM side and then push up any gaps they cannot fill to us). We are not aware of any work the local EM has done in this regard. I will be with the FEMA Region V Director as well as the FEMA Administrator, Craig Fugate, this week if they have questions.

I have advised Dr. Jackie Scott from DHHS and will be sending her the letter and ppt.

Chris

Capt. Chris A. Kelenske
Deputy State Director/Commander
Emergency Management and Homeland Security Division
Michigan State Police
4000 Collins Road
Lansing, MI 48910
(517) 333-5042

“A PROUD tradition of SERVICE through EXCELLENCE, INTEGRITY, and COURTESY.”

DANIEL T. KILDEE
5TH DISTRICT, MICHIGAN

COMMITTEE ON
FINANCIAL SERVICES

SUBCOMMITTEE ON
HOUSING AND INSURANCE

SUBCOMMITTEE ON
MONETARY POLICY AND TRADE

SENIOR WHIP

DEMOCRATIC POLICY AND
COMMUNICATIONS COMMITTEE

Congress of the United States
House of Representatives
Washington, DC 20515

WASHINGTON OFFICE

227 CANNON HOUSE OFFICE BUILDING
WASHINGTON, DC 20515
(202) 225-3611
(202) 225-6393 (FAX)

DISTRICT OFFICE

111 EAST COURT STREET #3B
FLINT, MI 48502
(810) 238-8627
(810) 238-8658 (FAX)

WWW.DANKILDEE.HOUSE.GOV
/REPDANKILDEE
@REPDANKILDEE

September 22, 2015

Secretary Sylvia Matthews Burwell
U.S. Department of Health & Human Services
HHS Office of the Secretary
200 Independence Avenue, S.W.
Washington, DC 20201

Administrator William Craig Fugate
Federal Emergency Management Agency
500 C Street, S.W.
Washington, DC 20472

Administrator Gina McCarthy
Environmental Protection Agency
Office of the Administrator 1101A
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460

Director Tom Frieden
Centers for Disease Control and Prevention
1600 Clifton Road
Atlanta, GA 30329

Secretary Burwell, Administrator McCarthy, Administrator Fugate and Director Frieden:

Recent developments regarding the level of lead in the water in one of the communities I represent, Flint, Mich., have raised significant concerns about the safety of its drinking water. For this reason, I am requesting immediate resources to provide safe drinking water to the residents of Flint until additional testing can be completed that confirms the water is safe, particularly for young children.

Although the city of Flint and the Michigan Department of Environmental Quality have conducted tests and taken the position that the lead level in the water is safe and below the action level, there are significant questions about the efficacy of their testing. In fact, Dr. Marc Edwards of Virginia Tech University, an established drinking water expert, conducted his own tests as part of a study that determined the water in Flint was above the lead action level.

Additionally, yesterday the Greater Flint Health Coalition, a group of health professionals in the community, released a report showing elevated blood lead levels in residents in Flint, particularly in young children. In response, the Coalition has requested that the Genesee County Health Department release a health advisory indicating that the water in Flint is unsafe to drink.

Thus, I am requesting resources from your agency to provide clean drinking water to the residents of Flint until additional testing can determine when the water will be safe to drink and a long-term solution can be implemented.

This is a serious health issue, particularly for young children, and until the water is demonstrated to be safe, immediate action must be taken to ensure Flint's residents have potable drinking water.

I look forward to working with you and thank you for your immediate attention.

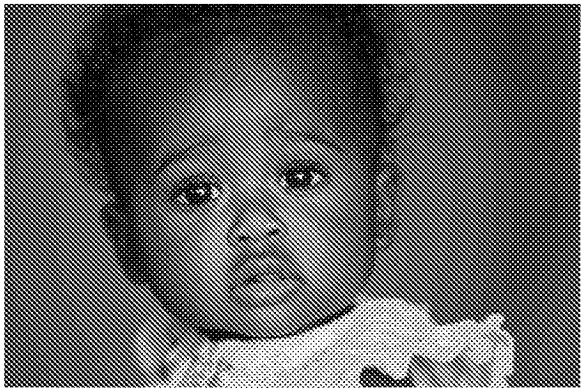
Sincerely,

Dan Kildee
MEMBER OF CONGRESS

Pediatric Lead Exposure In Flint, Michigan:
A Failure of Primary Prevention

Mona Hanna-Attisha MD MPH FAAP
Hurley Children's Hospital
Michigan State University Department of Pediatrics and Human Development

Introducing Makayla*



- 12 month old girl (DOB 8/15/2014) presented last week for her 1 year old check up. No concerns.
- Lives with single mom and 2 older siblings in west side (48504). Formula from WIC; powder mixed with warm tap water.
- Physical exam and development are normal. Makayla receives her 1 year old vaccines and routine lead and hemoglobin screening.
- *A couple days later, lead level comes back as 6 ug/dL.*

*Hypothetical scenario

Blood lead level of 6 ug/dL….

- Blood lead levels (BLL) above 5 ug/dL are considered elevated blood lead levels (EBL)
- Just a few years ago (2012), 10 ug/dL was cutoff
- Increasing evidence shows NO safe blood lead level
- Disproportionately impacts low income, minority children
- Primary prevention is most important

Primary Prevention

- "Because no measurable level of blood lead is known to be without deleterious effects, and because once engendered, the effects appear to be irreversible in the absence of any other interventions, public health, environmental and housing policies should encourage PREVENTION of all exposure to lead."

"Low Level Lead Exposure Harms Children: A Renewed Call for Primary Prevention." 2012 CDC Advisory Committee on Childhood Lead Poisoning Prevention.

What will happen to Makayla?

- Vast evidence supports increased likelihood of:
  - Decrease in IQ
    - An increase in BLL from 1 to 4 ug/dL, drops mean IQ -3.7 points
  - Small change in mean IQ, shifts entire population IQ distribution
    - Reduces high achievers IQs (>130) and increases kids with low IQs (<70)
    - Implications for special education services, employment, incarceration, life achievement, etc

Lanphear BP et al., Low-level environmental lead exposure and children's intellectual function: an international pooled analysis. Environ Health Perspect, 2005. 113:894-9.
Fewtrell LJ, Pruss-Ustun A, Landrigan P, and Ayuso-Mateos JL, Estimating the global burden of disease of mild mental retardation and cardiovascular diseases from environmental lead exposure. Environmental Research, 2004. 94:120-33.

Behavioral Burden

- Increased likelihood of :
  - ADHD behaviors
  - Delinquent behaviors and arrests
  - Total arrests and increased rates of arrests involving violent offenses
  - Other health effects: hematologic, cardiovascular, immunologic, endocrine, etc

Wright, JP, KN Dietrich, MD Ris, et al. 2008. Association of prenatal and childhood blood lead concentrations with criminal arrests in early adulthood. *PLoS Med* 5(5): e101

Chen, A, B Cai, KN Dietrich, et al. 2007. Lead exposure, IQ, and behavior in urban 5-7 year-olds: Does lead affect behavior only by lowering IQ? *Pediatrics* 119(3): e650-e658.

Needleman, HL, C McFarland, RB Ness, et al. 2002. Bone lead levels in adjudicated delinquents: A case control study. *Neurotoxicology and Teratology* 24(6):711-717.

The Cost

- "For childhood lead poisoning, $5.9 million in medical care costs, as well as an additional $50.9 billion (sensitivity analysis: $44.8–$60.6 billion) in lost economic productivity resulting from reduced cognitive potential from preventable childhood lead exposure."

- "The present value of Michigan's economic losses attributable to lead exposure in the 2009 cohort of 5 year-olds ranges from $3.19 (using U.S. blood lead levels) to $4.85 billion (using Michigan blood lead levels) per year in loss of future lifetime earnings."

Leonardo Trasande and Yinghua Liu. Reducing The Staggering Costs Of Environmental Disease In Children, Estimated At $76.6 Billion In 2008. *Health Affairs*, 30, no.5 (2011):863-870

The Price of Pollution: Cost Estimates of Environment-Related Childhood Diseases in Michigan. 2010 Report by Michigan Network of Children's Environmental Health

Lead in Water

- Increasing as source of lead, because of success in controlling other sources.
- Increasing due to aging water infrastructures, change in water sources, disinfectant uses, etc
- Disproportionally impacts developmentally-vulnerable formula-fed infants and pregnant mothers
  - For about 25% of infants drinking formula made from tap water at 10 ppb, blood lead would rise above the CDC level of concern of 5 micrograms/deciLiter (or ug/dL).
  - Increase in fetal death and reduced birth weights

Triantafyllidou, S., Gallagher. D. and Edwards, M. Assessing risk with increasingly stringent public health goals: the case of water lead and blood lead in children. Journal of Water and Health. doi: 10.2166/wh.2013.067 58-68 (2014).
Edwards, M. Fetal Death and Reduced Birth Rates Associated with Exposure to Lead-Contaminated Drinking Water. Env. Sci. and Tech. 2013 DOI: 10.1021/es4034952

Preliminary Results

(results removed)

Conclusions from BLL analysis

- % of children with EBL in Flint has increased
  - Most striking increase in zip codes with highest water lead levels
- Results underestimate risk: infants not screened for lead and water usage unknown.
  - *Accurate exposure largely unknown since national childhood lead screening focuses on household lead exposure (paint, soil, dust) at later ages (1 and 2 yrs)*

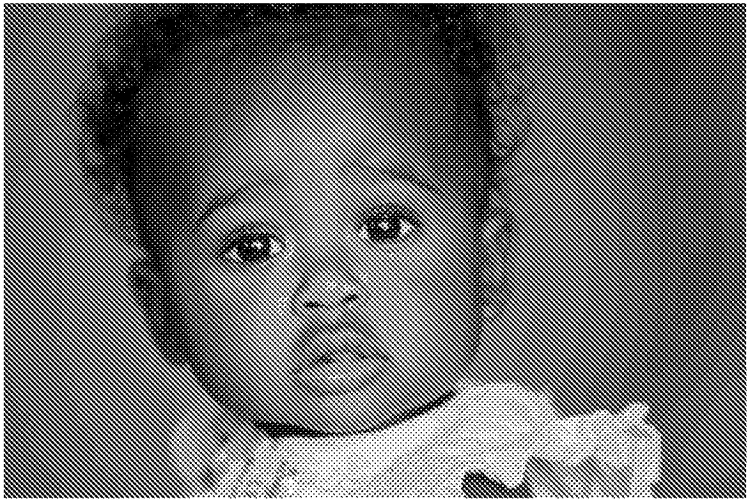
- Results are consistent and concerning. Primary prevention has failed.

Next Steps

- Immediately limit further exposure
  - Encourage breast feeding
  - No tap water for high risk groups: infants on formula & pregnant mothers
  - Declare health advisory: allows WIC to administer water or ready-to-feed formula and other resources (Salvation Army & United Way water supplies)
  - Distribution of lead clearing NSF-approved filters
  - Public education regarding precautions (flushing, etc)
  - Re-connect to Lake Huron water source ASAP

And Makayla…

- Asymptomatic now
- But what will her future hold and an entire generation of Flint children?



From: Wurfel, Sara (GOV)
Sent: Monday, September 28, 2015 6:00 PM
To: Mcbride, Bill (GOV)
Subject: Re: Flint Water Issue - Rep. Kildee Letter Received By Federal Agencies
Attachments: image001.png

Go figure huh?

Sent from my iPhone

On Sep 28, 2015, at 5:54 PM, Mcbride, Bill (GOV) <mcbrideb@michigan.gov> wrote:

> He never mentioned this on the call this morning.
>
> ---
>
> **From:** Wurfel, Sara (GOV)
> **Sent:** Monday, September 28, 2015 5:52 PM
> **To:** Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Mcbride, Bill (GOV) <mcbrideb@michigan.gov>
> **Cc:** Murray, David (GOV) <MurrayD1@michigan.gov>; Wisniewski, Wendy (GOV) <wisniewskiw@michigan.gov>
> **Subject:** FW: Flint Water Issue - Rep. Kildee Letter Received By Federal Agencies
> **Importance:** High
>
> Please see attached and below just in case … sounds like we should have follow up conversation with MSP team and make sure we're coordinating with DEQ, DHHS and Treasury.
>
> ---
>
> **From:** Kelenske, Chris (MSP)
> **Sent:** Monday, September 28, 2015 5:49 PM
> **To:** Etue, Kriste (MSP) <EtueK@michigan.gov>; Gorski, Gary (MSP) <GorskiG@michigan.gov>; Smith, Paul (GOV) <SmithP29@michigan.gov>
> **Cc:** Katarsky, Anthony (MSP) <KatarskyA@michigan.gov>; Leix, Ron (MSP) <LeixR@michigan.gov>; Banner, Shanon (MSP) <BannerS@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
> **Subject:** Flint Water Issue - Rep. Kildee Letter Received By Federal Agencies
> **Importance:** High
>
> Attached are two documents for your information: 1) A letter from US Representative Kildee to Craig Fugate of FEMA, HHS, EPA, and CDC and 2) a PowerPoint on Flint water concerns. Essentially, Representative Kildee is requesting FEMA take action to resolve potable water quality issues associated with the Flint water system.
>
> This is the first we heard of the letter and I actually found out from the FEMA Region V Director when he called me about an hour ago. He and I discussed a few things on this and he will respond advising they need to work through the local EM system in MI (engaging the local EM and then EMHSD). They also are working through the local health department as I confirmed with Dr. Scott from DHHS. If Flint needs water or want water the first step is to handle it locally (at least on the EM side and then push up any

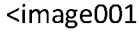
gaps they cannot fill to us). We are not aware of any work the local EM has done in this regard. I will be with the FEMA Region V Director as well as the FEMA Administrator, Craig Fugate, this week if they have questions.

I have advised Dr. Jackie Scott from DHHS and will be sending her the letter and ppt.

Chris

Capt. Chris A. Kelenske
Deputy State Director/Commander
Emergency Management and Homeland Security Division
Michigan State Police
4000 Collins Road
Lansing, MI 48910
(517) 333-5042

"A PROUD tradition of SERVICE through EXCELLENCE, INTEGRITY, and COURTESY."



From: Wurfel, Sara (GOV)
Sent: Monday, September 28, 2015 9:25 PM
To: Kyle Melinn - MIRS
Subject: Flint water Qs

Per your text …

Gov. Snyder spoke with Sen. Ananich this morning about how the state can continue working with Flint city leaders. We believe protecting public health is paramount and safe, clean, accessible drinking water is essential . That's what we are focused on helping ensure and deeply share the Senator's commitment to helping address the issue. We just received the letter from the senator and are reviewing his ideas.

The governor and state agencies have been closely working with Flint leaders on their infrastructure challenges for months, including providing $4.2 million in grants and restructured loan financing to provide resources needed to locate and fix infrastructure problems and add the carbon filtration system, additional testing and helping identify and provide filters.

It's also important that people have accurate information about their health and water. The MI Depts of Environmental Quality and Health and Human Services are testing water and working with local agencies and Flint residents on issues related to what they can do if they have concerns about the pipes in their homes.

{On background only: You probably recall the issues and challenges re: the history with DWSD. It's also important to note that switching back to Detroit water will not necessarily have the effect that some hope for or expect. Flint has long-term challenges with its water infrastructure that need to be addressed.}

Thanks and hope this helps. Let me know if you may need anything further.
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Monday, September 28, 2015 9:38 PM
To: 'Kaffer, Nancy'
Cc: Henderson, Stephen
Subject: RE: Flint

We should slate some time to talk at length tomorrow, Nancy. I will be more than happy to walk through the history of what's been done already and what's in the works.

This is absolutely an issue the administration has been actively engaged on and will continue to do so -- challenging issue on so many fronts but one we're committed to helping address -- let there be no Q on that front.

I have some time in mid to late morning -- hopefully between 10:15 and 11:15 though I know someone was trying to get something on my calendar then, again over lunch hour, or late afternoon after 4:15 p.m. Please let me know if one of those may work for you.

While on subject, am hoping a response from DEQ Director Dan Wyant and DHHS Director Nick Lyon on this topic may be in order that Free Press will run.

Thanks much,
SW

From: Kaffer, Nancy [mailto:nkaffer@freepress.com]
Sent: Monday, September 28, 2015 5:38 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Henderson, Stephen <shenderson@freepress.com>
Subject: RE: Flint

Hi Sara,

Wanted to touch base again before leaving for the day. I'm writing on this again this week, and really would like to know a) if you guys now believe there is an issue with lead in the water, or are engaging in further testing/analysis to determine if lead is an issue, and b) what exactly you guys are doing to help get safe drinking water to Flint kids.

Best,

Nancy

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Kaffer, Nancy
Sent: Monday, September 28, 2015 11:46 AM
To: 'Wurfel, Sara (GOV)' <Wurfels@michigan.gov>
Subject: RE: Flint

Can you give me some details of the things that you think are wrong? We always want to know about mistakes or errors.

Also, I asked you last week to comment on the situation -- still interested in hearing what you are doing to respond to the water situation in Flint, which has resulted in an increasing number of children with elevated blood-lead levels. We're doing a follow-up, and would love to know what specifically the governor's office is doing.

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abetternmichigan
313-222-6585
@nancykaffer, @abetternmi

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, September 28, 2015 11:26 AM
To: Kaffer, Nancy <nkaffer@freepress.com>
Subject: RE: Flint

I'm still in disbelief and simmering to be quite frank over that column, Nancy. That was fairly unbelievable - 'resounding yawn'? Seriously? You picked and chose facts and components to weave together a set narrative, leaving out so many critical pieces of all the state, Governor and administration have done to help the city and its residents in this situation.

There has been and there will be more that we're doing on this front -- again do everything possible to play a supportive role and work in collaborative fashion across all levels of government, with the community, faith and business leaders, and residents. Protecting public health is paramount and safe, clean, accessible drinking water is essential. That's what we solely focused on helping ensure.

Back in touch later.
SW

From: Kaffer, Nancy [mailto:nkaffer@freepress.com]
Sent: Monday, September 28, 2015 11:14 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint

Any updates/changes on plans to handle the Flint water situation?

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abetternmichigan
313-222-6585

@nancykaffer, @abettermi

From: Wurfel, Sara (GOV)
Sent: Tuesday, September 29, 2015 12:11 PM
To: GovCalendar
Subject: Accepted: RDS/DM/BM/NL/DW/Maggie Pallone/Karen Tommasulo/Col. Etue & Lt. Col. Sands/HH/DMurray/TSaxton - Meeting Re: Flint Water

From: Wurfel, Sara (GOV)
Sent: Tuesday, September 29, 2015 6:04 PM
To: 'Livengood, Chad'
Subject: RE: Flint water filters

I understood Dave got you on this asap, yes?

Please just let me know if you need anything else at all.

From: Livengood, Chad [mailto:CLivengood@detroitnews.com]
Sent: Tuesday, September 29, 2015 3:09 PM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>
Subject: FW: Flint water filters

Can you or Dave please call me about Flint water issues? I have some questions about these water filters and about this team of people working on this issue that the governor talked about earlier during the press scrum. Thanks.

Chad Livengood
Capitol Reporter
The Detroit News
Lansing bureau: (517) 371-3660
Cell: PPI
clivengood@detroitnews.com
Twitter.com/ChadLivengood

From: Livengood, Chad
Sent: Tuesday, September 29, 2015 3:04 PM
To: 'Murray, David (GOV)' <MurrayD1@michigan.gov>
Subject: Flint water filters

Dave,
I'm following up on an MLive report about the governor playing a role in helping get 1,500 water filters to pastors in Flint through an anonymous donor. What can you tell me about this and the governor's involvement?

-Chad

Chad Livengood
Capitol Reporter
The Detroit News
Lansing bureau: (517) 371-3660
Cell: PPI
clivengood@detroitnews.com
Twitter.com/ChadLivengood

From: Wurfel, Sara (GOV)
Sent: Tuesday, September 29, 2015 6:18 PM
To: 'Livengood, Chad'
Subject: RE: Flint water filters

Great, that's what I thought.

On the MSC appt, there is nothing I can confirm or say on the record or even as background … you'll have to stay tuned for tomorrow officially.

Completely and totally OTR only, I would say that wouldn't be a horrible inaccuracy.

Help?

From: Livengood, Chad [mailto:CLivengood@detroitnews.com]
Sent: Tuesday, September 29, 2015 6:11 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: Flint water filters

Dave got back with me on water filters.

Is there anything you can confirm on background about Joan Larsen being the governor's pick for the Supreme Court?

Chad Livengood
Capitol Reporter
The Detroit News
Lansing bureau: (517) 371-3660
Cell PPI
clivengood@detroitnews.com
Twitter.com/ChadLivengood

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To: 'Murray, David (GOV)' <MurrayD1@michigan.gov>
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-Chad

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Cell: PPI
clivengood@detroitnews.com
Twitter.com/ChadLivengood

From: Wurfel, Sara (GOV)
Sent: Tuesday, September 29, 2015 6:29 PM
To: Murray, David (GOV)
Subject: FW: PRESS INQUIRY | The Guardian re: Flint

From: Ryan Felton [PPI]
Sent: Tuesday, September 29, 2015 3:37 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: PRESS INQUIRY | The Guardian re: Flint

Hi all,

I wanted to see if the governor's office would have any response to the call from Senate minority leader Jim Ananich to have Flint reconnect with Detroit's water system. It's for a story I'm working on for the Guardian, regarding the increase in lead levels in the blood of Flint children ever since the city switched to using the Flint River.

Additionally, can you confirm whether or not the governor's office backed plans from Flint's emergency manager to transfer from using DWSD to the Flint River?

I'm working on a 5 pm deadline for tomorrow (9/30). I appreciate your time and look forward to the response.

Best,

Ryan Felton
Journalist
Detroit, MI
[PPI]
ryanfelton.tumblr.com
Twitter: @ryanfelton13

From: Wurfel, Sara (GOV)
Sent: Wednesday, September 30, 2015 8:31 AM
To: 'Brian O'Connell'
Subject: RE: Flint water

Thanks for note and reaching out, Brian.

The announcement is actually Friday early afternoon (final details in process of still being worked out, though additional water filters are certainly one planned piece) - would there be any interest in combining? or what's sense of timing and plan on your end? Will absolutely also keep confidential.

May be best to chat too.

Just let me know.

Thanks so much,
SW

-----Original Message-----
From: Brian O'Connell [mailto:brian.oconnell@gm.com]
Sent: Wednesday, September 30, 2015 8:00 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint water

Sara,
We understand the Governor is going to make an announcement today about Flint water. Can you tell me anything? We are in the process of making a large donation to the community in support of water filters. We do not want to get cross with anyone. I will keep information confidential.

Sent from my iPhone

Nothing in this message is intended to constitute an electronic signature unless a specific statement to the contrary is included in this message.

Confidentiality Note: This message is intended only for the person or entity to which it is addressed. It may contain confidential and/or privileged material. Any review, transmission, dissemination or other use, or taking of any action in reliance upon this message by persons or entities other than the intended recipient is prohibited and may be unlawful. If you received this message in error, please contact the sender and delete it from your computer.

From: Wurfel, Sara (GOV)
Sent: Wednesday, September 30, 2015 6:26 PM
To: Brad Wurfel - DEQ (WurfelB@michigan.gov); Terry Stanton - Treasury
Cc: Murray, David (GOV)
Subject: FW: Grant

Importance: High

Who can answer this STAT?

From: Kaffer, Nancy [mailto:nkaffer@freepress.com]
Sent: Wednesday, September 30, 2015 6:17 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: Grant

I'm a little confused about this press release … it sounds like the majority of that grant is to replace an incinerator, and $900k is create a map of leaks in pipes so that the city can prioritize repair, and provide a pipe thickness assessment that will contribute to the city's water main replacement program … was any of this directly prompted by the existence of lead and copper pipes, and the impact to those pipes of the more-corrosive Flint River water?

Nancy Kaffer
Columnist
Detroit Free Press
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@nancykaffer, @abettermi

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Wednesday, September 30, 2015 6:04 PM
To: Kaffer, Nancy <nkaffer@freepress.com>
Subject: Grant
Importance: High

Here's one example of the funding that has been allocated:

http://www.michigan.gov/snyder/0,4668,7-277-57577_57657-346722--,00.html

From: Wurfel, Sara (GOV)
Sent: Wednesday, September 30, 2015 6:27 PM
To: Wurfel, Brad (DEQ); Stanton, Terry A. (Treasury)
Cc: Murray, David (GOV)
Subject: RE: Grant

Importance: High

And where does this other $2.2 M that's talked about in grants come from??

From: Wurfel, Sara (GOV)
Sent: Wednesday, September 30, 2015 6:26 PM
To: Brad Wurfel - DEQ (WurfelB@michigan.gov) <WurfelB@michigan.gov>; Terry Stanton - Treasury <StantonT@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: FW: Grant
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To: Kaffer, Nancy <nkaffer@freepress.com>
Subject: Grant
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From: Wurfel, Sara (GOV)
Sent: Wednesday, September 30, 2015 7:12 PM
To: 'Kaffer, Nancy'
Subject: RE: Grant

Importance: High

It's all related to help address the city's water issues and aging infrastructure -- I'm trying to track someone down to get you the full details ASAP. But as I recall the "incinerator" as you noted, was directly tied to *water system enhancements* through improved waste management.

There was another major initiative related to a restructuring of Flint's Drinking Water Revolving Fund loans in March 2015 that allowed the city to save and dedicate $2.24 million to infrastructure needs and capital improvements in water. At least $1.5M was used to help improve the city's water treatment plant and help ensure the continued safety of Flint drinking water and address issues of discoloration and odor. This included the installation of a Granulated Active Charcoal filter (GAC) to help block or eliminate the formation of TTHM during the filtration process.

From: Kaffer, Nancy [mailto:nkaffer@freepress.com]
Sent: Wednesday, September 30, 2015 6:17 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: Grant

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From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Wednesday, September 30, 2015 6:04 PM
To: Kaffer, Nancy <nkaffer@freepress.com>
Subject: Grant
Importance: High

Here's one example of the funding that has been allocated:

http://www.michigan.gov/snyder/0,4668,7-277-57577_57657-346722--,00.html

From: Wurfel, Sara (GOV)
Sent: Wednesday, September 30, 2015 7:23 PM
To: Muchmore, Dennis (GOV); Hollins, Harvey (GOV)
Subject: FW: Concerned Pastors for Social Action - Meeting with Governor's Office

Anything we need to know and can do?

From: Maloney, Damon [mailto:damon.maloney@abc12.com]
Sent: Wednesday, September 30, 2015 6:50 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Concerned Pastors for Social Action - Meeting with Governor's Office

Hello Sara,

My name is Damon Maloney with ABC12 News in Flint.
I'm writing to inquire about a meeting being held tomorrow morning in Lansing between the Governor's Office and the group 'Concerned Pastors for Social Action' from Flint.

We're hearing the meeting centers around Flint's water quality concerns and is scheduled for sometime around 9 o'clock.

From my understanding this meeting won't be open to the public, but I'm wondering if we can at least have a location of where it's taking place? We'll be looking for reaction after the meeting from locals.

Thank you,
Damon Maloney PPI

Damon Maloney
Reporter/Anchor - ABC12 News
PPI **(cell)**
damon.maloney@abc12.com
On Facebook

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 9:03 AM
To: Murray, David (GOV)
Subject: FW: Mlive guest column 092015
Attachments: Mlive guest column 092015.docx

Importance: High

From: Wurfel, Brad (DEQ)
Sent: Thursday, October 01, 2015 3:40 AM
To: Wyant, Dan (DEQ) <WyantD@michigan.gov>; Lyon, Nick (DHHS) <LyonN2@michigan.gov>; Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Tommasulo, Karen (DEQ) <TommasuloK@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: Mlive guest column 092015

First cut at Mlive guest column. Same drill as last email, please review and advise before we share it around to the broader group.
Thanks.
b

Leaders address ‘crisis of confidence’ with Flint water

Residents of Flint have been hearing concerning news about the municipal water supply for more than a year. Since the City switched water supplies and began using the Flint River as its source, some have complained that the water is different. State regulators have cited the system for various compliance issues.

More recently, voices within the community – and some from other states – have alleged state regulators failed to do their jobs. It simply is not the case. Leaders from the regulatory community today announced an 11-point plan to build our knowledge about lead in flint, better protect the community and restore public confidence in the regulatory framework.

Over the past year, the city has completed lead and copper testing required by law. Lead is a real concern, particularly in children. State and federal regulators run programs to monitor lead in drinking water and in kids’ blood levels specifically to track lead impacts on our communities.

It is important to remember lead comes from many sources, particularly in the state’s urban and industrial areas. It is in soils, deposited for decades by leaded fuel and industrial processes. It is paint, in homes built in the mid-1970s or earlier. And it is common in the plumbing and service connections of older homes, which is why the DEQ requires community water sources around the state to track and record it and take steps when levels surpass federal action thresholds.

Flint’s drinking water passed its lead and copper test. However, testing done by non-regulatory entities produced a different picture, creating confusion and concern – for residents of flint as well as city, state and federal regulators.

The lead in question does not coming from the Flint River. The water leaving the drinking water plant is clean and safe. The water traveling through the distribution system also is free of lead. The lead issues happen when the water reaches homes that have lead service lines or lead plumbing. This is important to know for two reasons: One, because the contamination happens at the homeowner level, it is very difficult to track precisely. And, the longer water sits in lead pipes, the more lead it takes on, so homes on the same block might have very different results from lead testing, based on what kind of plumbing they have and how homeowners use their water.

The City’s efforts to test for lead involve sending water sampling kits to homeowners and relying on them to participate and follow the sampling instructions, and that has been a long-standing challenge in Flint. This year, the City sent out 200 bottles in January and got 60 samples back by June. Regulators must operate on the knowledge available, and we only know what the customers let us know by participating in the City’s testing.

However, a recent announcement by local doctors that blood lead levels are rising in children residing in Flint's most at-risk zip codes added enough to the state's knowledge to spark some unusual precautionary measures. Experts are still working the data to determine exactly what it means, but the state takes lead seriously. Leaders have put forth an 11-point plan with short-term and long-term actions that will bolster our knowledge of the situation and provide a more accurate assessment of the threat level.

In the near term, the state will move immediately to provide free lead water filters for Flint water customers. We will test the drinking water at Flint schools. We will provide bottled water and formula to Flint mothers at risk. The system will be optimized for corrosion controls by the end of the month. These precautions will help protect the community while the state takes a deeper look at the drinking water system, the last round of test results and the testing protocols.

Flint residents should understand the state has been focused on Flint's water and Flint's kids for decades, but state leaders cannot make knee-jerk decisions based on unchecked allegations in the media. We have the responsibility to check facts and make decisions carefully, using the knowledge we have available to direct public resources.

Community participation plays a key role in our success. Residents who receive a testing kit from the City should recognize that this is an important opportunity to learn about their lead exposure while helping the city better track the quality of the water they provide. Residents with lead concerns should request a free home test from the city. Parents of young kids should take advantage of free blood lead level testing at the local community health department.

The plan set forth by the state speaks to a coordinated partnership among city, state and federal leaders. With community involvement, Flint's residents can be assured of more accurate and effective protection from lead exposure.

Learn more at Michigan.gov/FlintDrinkingWater

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 9:03 AM
To: Murray, David (GOV)
Subject: FW: DRAFT Freep Editorial
Attachments: DRAFT freep editorial short 092015.docx

Importance: High

Follow Up Flag: Follow up
Flag Status: Flagged

From: Wurfel, Brad (DEQ)
Sent: Thursday, October 01, 2015 2:15 AM
To: Wyant, Dan (DEQ) <WyantD@michigan.gov>; Lyon, Nick (DHHS) <LyonN2@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Tommasulo, Karen (DEQ) <TommasuloK@michigan.gov>
Cc: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: DRAFT Freep Editorial

First cut at the Free Press rebuttal editorial. Please review and advise.
Phone conversations preferable.
b

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713
PPI cell

A new way forward in Flint

State regulatory leaders were disappointed by recent Free Press editorials mischaracterizing Lansing's oversight of the City of Flint's drinking water system. The paper's portrayal of the state as uncaring about drinking water quality and the community's exposure to lead are simply off the mark.

State and federal regulators run programs to monitor lead in drinking water and in kids' blood levels specifically to track lead impacts on our communities. Lead is a real concern, particularly in children, and we take our responsibility seriously.

But it is important to remember that lead is all around us. It is in soils, deposited for decades by leaded fuel and industrial processes. It is paint, in homes built in the mid-1970s or earlier. And it is unfortunately common in the plumbing and service connections of older homes, which is why the DEQ requires community water sources around the state to track and record it and take steps when levels surpass federal action thresholds.

Let's be clear: The Flint River is not contributing lead. The water leaving the drinking water plant is clean and safe. The water traveling through the distribution system also is free of lead. The lead issues are the result of water in homes that have lead service lines or lead plumbing. And because the contamination factor is at the homeowner level, it is difficult to track or assess with the kind of specificity customers would like to think regulators have. Two homes on the same block might have very different results from lead testing, based on what kind of plumbing they have and how homeowners use their water.

Moreover, the City's efforts to test for lead involve sending water sampling kits to homeowners and relying on them to participate and follow the sampling instructions, and that has been a long-standing challenge in Flint. This year, the City sent out 200 bottles in January and got 60 samples back by June. We must operate on the best knowledge we have available, and we only know what the customers let us know by participating in the City's testing.

Emerging data from local doctors, however, added to our knowledge enough to spark some unusual precautionary actions. They reported to the media that blood lead levels in Flint kids at their offices are up this year. It's still early to know exactly what that means, but because lead is a serious threat to children's development, we have decided to take some short-term precautionary measures and do more to learn exactly what is happening in the city.

The state today joined with local and federal authorities to present an 11-step action plan designed to produce a clearer picture of lead in the community's water, offer immediate protection for its kids and families with corrosion control and free lead water

filters, review and audit testing protocols, and immediately assess the schools to reassure parents their kids are not exposed to lead at the drinking fountains.

Critics in the community and at the Free Press have said we have been slow to respond to Flint's drinking water concerns. The truth is that local, state and federal authorities have been paying very close attention to Flint's drinking water all along, but we have the responsibility to check facts and use the knowledge we have to develop responsible, meaningful strategies that will help everyone clearly understand the real risk level and take appropriate actions.

We will be transparent with all we are doing and everything we determine. But Flint residents should also recognize our ultimate success depends on their help. Residents with lead concerns should have their home water tested – customers of Flint water can request it for free. Parents of younger kids should have their children get free blood lead level testing at the local community health department. Residents who receive a testing kit from the City should recognize that this is an important opportunity to learn about their lead exposure while helping the city better track the quality of the water they provide.

We are committed to doing all we can to protect drinking water and public health, in Flint and the rest of Michigan. Possibly the most difficult crisis to address in Flint right now is a crisis of public confidence. The plan set forth today should send the strong signal that residents can be assured the city, state and federal regulators are accountable, forthright and working hard to protect them. It is the community's responsibility to take the steps available to them as well. Ensuring public health is a public service, but the public can play a key role.

Learn more at Michigan.gov/FlintDrinkingWater

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 10:07 AM
To: 'Agen, Jarrod (GOV)'; Clement, Elizabeth (GOV)
Subject: RE: Flint

Not yet, but hopefully will be. Think got Dennis and Harvey on same page about tying in other HHS/Hurley news to part of action plan on Friday's announcement. DEQ and DHHS teams trying to finalize policy and messaging drafts now for review. 1:30 p.m. mtg to walk through details and see where at.

Not Responsive

-----Original Message-----
From: Agen, Jarrod (GOV)
Sent: Thursday, October 01, 2015 9:46 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>
Subject: Flint

Are we good on plan to discuss lead levels tomorrow?
If you need me to chime in, let me know....

If you have any messaging that you want G to review on the plane, just shoot it over.

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 11:26 AM
To: 'Maloney, Damon'; Murray, David (GOV)
Subject: RE: Flint Water

We're always glad to help, Damon - that's what we're here for. Please just reach out in advance in the future.

Stay tuned - as governor and team have noted, our administration has dedicated a lot of time and resources to work collaboratively on this issue as well as see what additional action items we can do and help with. We were hoping to have that wrapped up by week's end. As details get finalized, I know folks will be in touch.

More soon,
SW

-----Original Message-----
From: Maloney, Damon [mailto:damon.maloney@abc12.com]
Sent: Thursday, October 01, 2015 10:23 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Flint Water

Thank you for your help today- appreciate your hospitality.

Wanted to ask if a press conference is scheduled for tomorrow in any shape or manner dealing with Flint Water and the Future.

Thanks,
Damon

Damon Maloney
abc12 News
Sent from my iPhone

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 12:01 PM
To: Wurfel, Brad (DEQ)
Subject: RE: Michigan Radio/NPR interview: Thurs 10/1 @ 11:35 AM

Seems like may be best for Dan to do as separate IV – just high level, talking about all work that has already happened and working on additional action steps to be finalized by end of week.

Not Responsive

From: Wurfel, Brad (DEQ)
Sent: Thursday, October 01, 2015 11:06 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Fwd: Michigan Radio/NPR interview: Thurs 10/1 @ 11:35 AM

Sent from my iPhone

Begin forwarded message:

> **From:** Alexandra Billings <allibill@umich.edu>
> **Date:** October 1, 2015 at 11:02:43 AM EDT
> **To:** "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
> **Subject: Re: Michigan Radio/NPR interview: Thurs 10/1 @ 11:35 AM**
>
> The idea was to get Edwards and DEQ in the same interview but we could also work out a conversation at a different time slot.
>
> Cyndy (Stateside host) is available this afternoon between 12:00 pm - 1:00 pm as well as at 2:00 pm.
>
> The show airs at 3 o'clock so that's about as late as we could push it.
>
> Let me know what works best.
>
> On Thu, Oct 1, 2015 at 10:59 AM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:
>
> > The time is going to be tough. But I'll find a way to get you someone, even if it's me. Can you work out a conversation at a different time slot, or was the idea to get Edwards and DEQ in the same interview?
> >
> > Sent from my iPhone
> >
> > On Oct 1, 2015, at 10:38 AM, Alexandra Billings <allibill@umich.edu> wrote:

Hi Brad,

Sounds like you're in meetings all day so I just wanted to reiterate that the phone interview with Marc Edwards is at 11:35 am.

If someone from the DEQ is interested in discussing the lead corrosion problem in Flint but cannot make 11:35 am work, please let me know.

My deadline is at 11: 00 am.

Thank you!

On Thu, Oct 1, 2015 at 9:49 AM, Alexandra Billings <allibill@umich.edu> wrote:

> Hi Brad,
>
> Alli here with Michigan Radio - I help with booking for Stateside with Cynthia Canty. On today's show, we're speaking with Virginia Tech's Marc Edwards about Flint's water problems.
>
> I would like to see if someone from the DEQ (Mike Prysby or Dan Wyant) would be interested in joining the conversation.
>
> **The interview is at 11:35 am so I would need to know as soon as possible.**
>
> Two main things we would like to discuss: how the city conducted testing for lead and why DEQ did not require Flint to put corrosion control in place at the time of the switch.
>
> The interview would be pre-recorded, not live, and would take about 10-15 minutes. A land line is preferred.
>
> When you have a moment, please let me know.
>
> Thanks!
>
> --
> Alexandra Billings
> Broadcast Producer
>
>
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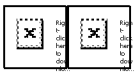
> 

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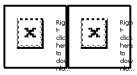
Alexandra Billings
Broadcast Producer



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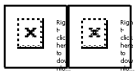
Alexandra Billings
Broadcast Producer



From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 4:30 PM
To: 'Lynch, James'
Subject: RE: Hey Sara.

Hi there Jim –

Would say this issue is one that we've been actively engaged on and our administration will be outlining a collaborative, comprehensive action plan tomorrow afternoon. We believe protecting public health is paramount and safe, clean, accessible drinking water is essential . That's what we are focused on helping ensure and working together across local, state and federal levels to bring all resources and ideas to bear.

Would add that the governor and state agencies have been closely working with Flint leaders on their infrastructure challenges for a while, including providing $4.2 million in grants and restructured loan financing to provide resources needed to locate and fix infrastructure problems and add the carbon filtration system, additional testing and helping identify and provide filters.

Hope that helps.

Thanks and best,
SW

From: Lynch, James [mailto:JLynch@detroitnews.com]
Sent: Thursday, October 01, 2015 3:17 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Hey Sara.

Any chance we can get a comment out of the governor's office regarding this collection of enviro/civil rights groups asking the EPA to step in to the Flint water situation?

Jim Lynch
The Detroit News
(313) 727-5045
jlynch@detnews.com

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 4:31 PM
To: Bedan, Morgan (GOV); Dickinson, Sarah (GOV)
Subject: FW: media advisory
Attachments: 151001. Media advisory.docx

Importance: High

One piece for Gov's briefing.

From: Tommasulo, Karen (DEQ)
Sent: Thursday, October 01, 2015 4:15 PM
To: Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>; Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: media advisory
Importance: High

Here's the media advisory we're ready to ship out. We're planning to send to our entire list. Would you like to send to your lists as well?

Karen Tommasulo
Public Information Officer
Michigan Department of Environmental Quality
517-284-6716 | 517-599-5733
tommasulok@michigan.gov

Oct. 1, 2015

Michigan leaders to announce action plan for Flint drinking water

Friday, Oct. 2 at 1:30 p.m.
Local, state and federal leaders will host a press conference to announce a comprehensive action plan for addressing drinking water concerns in Flint. Participants will include:

- Harvey Hollins, Director of the Office of Urban Initiatives for Gov. Rick Snyder
- Dan Wyant, Director for the Michigan Department of Environmental Quality
- Nick Lyon, Director for the Michigan Department of Health and Human Services
- Dr. Eden Wells, Chief Medical Executive for the Michigan Department of Health and Human Services
- Dayne Walling, Mayor of Flint
- Other local, state and federal officials

Location:
Kettering University, Innovation Center
1300 Bluff St.
Flint, MI 48504

This is a media event open to credentialed news media only. Media who plan to attend this event should RSVP by noon Friday. Contact Rosemarie Olszewski at 517-284-6700 or olszewskir@michigan.gov.

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 4:36 PM
To: Wurfel, Brad (DEQ)
Cc: Lasher, Geralyn (DHHS)
Subject: RE: Hey

We got contacted as well.

What planning on saying is that this issue is one that we've been actively engaged on and our administration will be outlining a collaborative, comprehensive action plan tomorrow afternoon. We believe protecting public health is paramount and safe, clean, accessible drinking water is essential . That's what we are focused on helping ensure and working together across local, state and federal levels to bring all resources and ideas to bear.

Will add that the governor and state agencies have been closely working with Flint leaders on their infrastructure challenges, including providing $4.2 million in grants and restructured loan financing to provide resources needed to locate and fix infrastructure problems and add the carbon filtration system, additional testing and helping identify and provide filters.

From: Wurfel, Brad (DEQ)
Sent: Thursday, October 01, 2015 4:34 PM
To: Lynch, James <JLynch@detroitnews.com>
Cc: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: Hey

Jim:

"State officials will be in Flint tomorrow to announce a plan to address public concerns about drinking water quality in Flint. We recognize there is widespread confusion and concern in the city, and we look forward to presenting a plan for action and addressing questions."

b

From: Lynch, James [mailto:JLynch@detroitnews.com]
Sent: Thursday, October 01, 2015 3:19 PM
To: Wurfel, Brad (DEQ)
Subject: Hey

Looking for a comment out of your office regarding this call for the EPA to step in to the Flint situation.

For Immediate Release

Press Contact: Margie Kelly, mkelly@nrdc.org, 312-651-7935, Rana Elmir, ACLU of Michigan relmir@aclumich.org, 313-578-6816

GROUPS PETITION EPA FOR EMERGENCY RESPONSE TO

FLINT, MI DRINKING WATER CONTAMINATION

City and state agencies have failed to fix the public health crisis that imperils children's health

CHICAGO (October 1, 2015) – In response to the ongoing drinking water crisis in Flint, Michigan, a coalition of local citizens and national groups petitioned the Environmental Protection Agency (EPA) today to take emergency action to secure safe, lead-free water for the City's children and families.

Flint-based Coalition for Clean Water, the American Civil Liberties Union of Michigan, and the Natural Resources Defense Council joined the petition to trigger the EPA to launch a comprehensive federal response to the ongoing crisis. Under the Safe Drinking Water Act, the EPA is empowered to stop "imminent and substantial endangerment to human health" such as the elevated lead levels in Flint's drinking water.

The petition urges that EPA immediately order the City and Michigan DEQ to reconnect Flint's water system with water from the Detroit Water and Sewerage Department, and to provide Flint residents with an alternative, free source of safe drinking water that meets EPA standards, among other requests.

"Neither the City of Flint nor the State of Michigan is doing enough to fix the problem of lead in our drinking water. As evidenced by the ongoing poisoning of the children of Flint, it's time for the EPA to take immediate action to provide us with a safe water source," said LeeAnne Walters, a concerned parent from Flint and member of the Water You Fighting For, one of the organizations petitioning the EPA. "The city and state need to test for lead and copper as intended by the federal lead and copper rule," Walters added.

Highly corrosive water in the Flint River, the source of the City's drinking water, has been flowing through lead service lines in Flint's water system for more than a year. A medical study has confirmed that the number of children living in Flint with health-threatening elevated blood lead levels has risen since the City switched its water source. One study of Flint children under age five found that the proportion of children living in Flint with elevated blood levels has *doubled* since the City changed its drinking water source. The statistics are worse for younger children; those under fifteen months old had lead levels elevated 2.5 times greater after the switch to Flint River water.

The City of Flint and the state Department of Environmental Quality (DEQ) have been made aware of tap water monitoring results showing shockingly high lead levels in homes served by the City's drinking water system for months, but neither has taken the action necessary to meaningfully address the problem. There also appear to be serious issues with how the City was testing for lead in a way that appears to downplay the extent of the problem.

"Americans rightly believe that the water coming out of their taps should be safe, not exquisitely toxic. For more than a year, lead-contaminated drinking water has been flowing through Flint's pipes, faucets, and fountains. If the City and State will not address the issue, the EPA should step in to protect kids' health immediately," said Henry Henderson, Midwest Director for the Natural Resources Defense Council.

"Flint city officials, state-appointed emergency managers and the Michigan Department of Environmental Quality have all failed monumentally in their duty to provide the people of Flint with clean, safe drinking water. Now that the truth is revealed, further action is imperative," said Kary L. Moss, ACLU of Michigan executive director. "The devastating revelations from independent researchers, as well as our own nearly year-long investigation, demand an immediate, effective and comprehensive response. The EPA, along with and city officials, must exercise their full authority to guarantee that the people of Flint are protected from the hazardous water now flowing into their homes. The first step should be to overturn the emergency manager order and remove the Flint River as the city's source of water."

There is no safe level of lead exposure. The toxic effects of lead on virtually every system in the body, and particularly on the developing brains of young children, are well documented. It can also contribute to high blood pressure and other health problems in adults. Even low levels of lead in the blood have been shown to affect IQ, ability to pay attention, and academic achievement, effects that are irreversible.

Until Flint restores a safe drinking water source that meets EPA standards, residents are advised to take the following steps:

- ? Flush faucets by running water for a minimum of five (5) minutes prior to consumption;

- ? Use only cold water from taps for drinking and cooking, as warm or hot water is more likely to contain higher levels of lead;

- ? Install and use water filters that are certified to remove lead by NSF International (labeled as meeting "NSF Standard 53" for lead removal), and regularly change the filter cartridges; and

- ? Use only filtered or bottled water to prepare baby formula and food. Children, pregnant or nursing women should also use filtered or bottled water for drinking and cooking.

In addition, residents should consider taking the following additional steps where possible:

- ? Remove and clean individual faucet aerators, as lead particles and sediment can collect in the aerator screen located at the faucets;

- ? Contact a licensed plumber to replace any household plumbing that may contain lead; and

- ? Flush cold water taps after installing any new household pipes or fixtures.

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 5:48 PM
To: Dickinson, Sarah (GOV)
Subject: RE: Friday media briefings

If you could also add in this bio link for Dr. Wells – don't believe Governor has met her yet. New CME as of this spring.

MDHHS Names Eden V. Wells, M.D., M.P.H. as Michigan's New Chief Medical Executive
http://www.michigan.gov/som/0,4669,7-192-29942_34762-353542--,00.html

---

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 5:45 PM
To: Dickinson, Sarah (GOV) <DickinsonS@michigan.gov>
Cc: Emmitt, Beth (GOV) <emmittb@michigan.gov>; Bedan, Morgan (GOV) <BedanM@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>; Paciorek, Josh (GOV) <Paciorekj@michigan.gov>; Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>
Subject: RE: Friday media briefings
Importance: High

Here are the two media briefings for tomorrow. Holler if have any Qs or need anything else at all.

From: Biehl, Laura (GOV)
Sent: Thursday, October 01, 2015 5:23 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Friday media briefings
Importance: High

RDS/Dan Wyant/Nick Lyon/Dr. Eden Wells/JA/SW- LIVE conference call with media regarding Flint water comprehensive action plan

DATE: Friday, Oct. 2, 2015

Time: 8:15-8:40 a.m. PST (11:15-11:40 AM EST)

Location: Via phone from San Fran

RDS to call: **PPI**

- Call right at 8:15 a.m.; Call will be live immediately. SW will introduce you, the other participants and open it up for your opening remarks.
- Other participants will be Dan Wyant, DEQ Director; Nick Lyon, DHHS Director; and Dr. Eden Wells, MI's Chief Medical Executive
- SW will moderate and screen reporter questions.

Purpose: Media conference call to discuss Flint water comprehensive action plan

Possible Topics:
Flint water action plan
Lead in Flint water

Handling of Flint Water issue
Reconnecting Flint to Detroit water

Media invited:
Flint area media (print, TV and radio) – Flint Journal/Ron Fonger; WJRT TV 12, WNEM TV 5, WEYI TV 25, WFNT Radio
Associated Press – Ed White
Detroit News – Jim Lynch
Detroit Free Press – Nancy Kaffer, Kristi Tanner & Kathy Gray
Michigan Radio – Steve Carmody

Agenda:

11:15-11:16 AM	SW intro; sets parameters; introduces other participants; turns over to Gov for opening remarks
11:16-11:21 AM	Governor gives opening remarks; highlights the key steps in the action plan
11:22-11:37 AM	Governor opens up for Q&A, weaving in Departmental experts as necessary and needed
11:37-11:39 AM	Governor gives closing remarks
11:39 AM	SW wraps up call; reminds reporters of embargo, 1:30 p.m. press conference and how to get a hold of everyone

Recent Articles:
Freep: Legislators take action to fix Flint water supply- http://www.freep.com/story/news/politics/2015/10/01/legislators-take-action-fix-flint-water-supply/73152540/
WDIV: Public health emergency declared due to lead in Flint water- http://www.clickondetroit.com/news/public-health-emergency-declared-due-to-lead-in-flint-water/35601670
Mlive: Governor says fallout from Flint water switch wasn't fully understood- http://www.mlive.com/news/flint/index.ssf/2015/09/snyder_says_he_helped_bring_wa.html
Freep: Snyder finally says lead in Flint water may be problem- http://www.freep.com/story/opinion/columnists/nancy-kaffer/2015/09/30/time-gov-says-lead-flint-water-may-problem/73088666/
Mlive: Legislative Black Caucus urges state of emergency for Flint water- http://www.mlive.com/news/flint/index.ssf/2015/09/michgans_black_causus_urges_go.html

Market: Statewide

Contact: Conference line PPI

RDS/JA – LIVE Radio interview with Frank Beckmann on WJR Radio

Date: Friday, Oct. 2, 2015

Time: 8:45-8:55 a.m. PST

Location: Via phone

RDS to call: PPI

Not Responsive

Possible Topics:

Not Responsive

- Flint Water

Not Responsive

AP: Snyder acknowledges some mistakes in tapping Flint River- http://www.elkharttruth.com/news/michigan/2015/09/30/Snyder-acknowledges-some-mistakes-in-tapping-Flint-River.html

Note:

- Frank Beckmann will be broadcasting remotely from northern Michigan this day. Congressman John Moolenaar will be the guest immediately before the Governor.

Last interview: 5/28/15 at Mackinac

Market: Southeast Michigan- online at wjr.com

Contact: Studio: 313-875-4480; Back-up Producer Terri Leib cell: **PPI**

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 6:27 PM
To: Dickinson, Sarah (GOV)
Subject: Fwd: Revised DRAFT Flint water action plan. Please review!
Attachments: image001.jpg

Ditto - but for Gov's briefing

Sent from my iPhone

Begin forwarded message:

From: "Murray, David (GOV)" <MurrayD1@michigan.gov>
Date: October 1, 2015 at 6:18:56 PM EDT
To: "Agen, Jarrod (GOV)" <AgenJ@michigan.gov>, "Wurfel, Sara (GOV)" <WurfelS@michigan.gov>, "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>, "Tommasulo, Karen (DEQ)" <TommasuloK@michigan.gov>, "Paciorek, Josh (GOV)" <Pacioreki@michigan.gov>, "Biehl, Laura (GOV)" <BiehlL@michigan.gov>, "Heaton, Anna (GOV)" <HeatonA@michigan.gov>
Subject: Revised DRAFT Flint water action plan. Please review!

Gov. Rick Snyder: Comprehensive action plan will help Flint residents address water concerns

Collaborative effort with state, federal and city leaders focuses on testing, assistance

FLINT, Mich. – Flint residents need to have access to safe, clean, water now and long into the future, Gov. Rick Snyder said, announcing a comprehensive action plan created with state, federal and city leaders to address concerns about drinking water.

The water leaving Flint's drinking water system is safe to drink, but some families with lead plumbing in their homes or connections might experience higher levels of lead in the water that comes out of their faucets.

The action plan focuses on increasing water testing, offering additional precautions for families with lead plumbing in their homes, and providing long-term solutions to address the city's water infrastructure challenges. The plan was created at Snyder's direction by the Michigan Department of Environmental Quality, and the Department of Health and Human Services, the U.S. Environmental Protection Agency, and the City of Flint.

"People are worried about their health and their families, and they need to have accurate information and know that help is available," Snyder said. "Today's action plan builds upon ongoing work with state and federal agencies and our partnership with city and community leaders. Together, we are working to ensure that all Flint residents can feel safe and address potential problems."

The city and the state also are working together to gather more data to ensure the water that leaves the treatment plant as well as the water that arrives in Flint homes is safe for all residents. The plan includes:

- Testing in Flint public schools immediately to ensure that drinking water is safe, with testing also available at no cost to any other school in Flint.
- Expanding health exposure testing of individual homes.
- Offering free water testing to Flint residents to assure their drinking water is safe.
- Accelerating an optimization of corrosion controls in the Flint drinking water system.
- Expanding a Safe Drinking Water Technical Advisory Committee to ensure the best technology, practices and science are being followed by adding an expert from the Environmental Protection Agency's Office of Research and Development to the group.
- Accelerating water system improvements to address replacing lead service lines.
- Naming Dr. Eden Wells, chief medical executive for the Michigan Department of Health and Human Services, as the Flint drinking water public health adviser.
- Providing water filters to residents with concerns or who are included in state assistance programs.
- Creating a comprehensive lead education program to make sure residents have detailed information about how to protect themselves and their homes.
- Expediting the completion of the Karegnondi Water Authority pipeline.

Residents can have their water tested by calling 810-787-6537 and pressing 1, or emailing flintwater@cityofflint.com. Additional information is available at www.michigan.gov/flintwater. State leaders have been working closely with state and federal lawmakers to tap resources at all levels of government to address concerns.

State health experts said there has been an increase in elevated childhood blood lead levels in some specific communities. Initial analysis of MDHHS data found that blood lead levels of children in Flint have followed an expected seasonal trend. While this analysis for Flint as a whole remains true, a comprehensive and detailed review breaking down data by ZIP codes

with the city revealed that MDHHS data is consistent with a study presented recently by Hurley Children's Hospital.

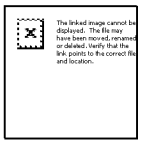
"While we cannot conclusively say that the water source change is the sole cause of the increase, this analysis supports our efforts as we take active steps to reduce all potential lead exposures in Flint," MDHHS Director Nick Lyon said. "As part of this, we are working closely with our public and private partners to provide Flint residents on MDHHS assistance programs with water filters and educate families about the steps they can take to reduce all lead exposures in their home."

As a part of the action plan, MDHHS is making National Sanitation Foundation certified water filters available to clients who are active Family Independence Program, Food Assistance Program, Child Development and Care or Social Security Insurance recipients.

"This action plan offers concrete steps we will take in a local, state and federal partnership to ensure all Flint residents have safe water to drink," DEQ Director Dan Wyant said. "The DEQ will work closely with the city to gather further data to ensure the water that leaves Flint's system as well as the water that arrives in Flint homes is safe to drink."

###

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray



Subject: FW: RDS - Pre-Brief for Flint Water Media Conference Call
Location: By Phone

Start: Fri 10/2/2015 10:00 AM
End: Fri 10/2/2015 10:10 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: GovCalendar

-----Original Appointment-----
From: Dickinson, Sarah (GOV) **On Behalf Of** GovCalendar
Sent: Thursday, October 01, 2015 5:31 PM
To: GovCalendar; Wyant, Dan (DEQ); Lyon, Nick (DHHS); Wells, Eden (DHHS); Grijalva, Nancy (DHHS); Thelen, Mary Beth (DEQ)
Subject: RDS - Pre-Brief for Flint Water Media Conference Call
When: Friday, October 02, 2015 8:00 AM-8:10 AM (UTC-08:00) Pacific Time (US & Canada).
Where: By Phone

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 6:49 PM
To: GovCalendar
Subject: Accepted: RDS - Pre-Brief for Flint Water Media Conference Call

Subject: FW: RDS - Pre-Brief for Flint Water Media Conference Call
Location: By Phone

Start: Fri 10/2/2015 11:00 AM
End: Fri 10/2/2015 11:10 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: GovCalendar

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From: Dickinson, Sarah (GOV) **On Behalf Of** GovCalendar
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To: GovCalendar; Wyant, Dan (DEQ); Lyon, Nick (DHHS); Wells, Eden (DHHS); Grijalva, Nancy (DHHS); Thelen, Mary Beth (DEQ)
Subject: RDS - Pre-Brief for Flint Water Media Conference Call
When: Friday, October 02, 2015 8:00 AM-8:10 AM (UTC-08:00) Pacific Time (US & Canada).
Where: By Phone

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 7:00 PM
To: Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS); Eisner, Jennifer (DHHS)
Cc: Murray, David (GOV)
Subject: FW: Revised DRAFT Flint water action plan. Please review!

Please see revised release and make sure OK or any edits ASAP.

Thx!

From: Murray, David (GOV)
Sent: Thursday, October 01, 2015 6:19 PM
To: Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Tommasulo, Karen (DEQ) <TommasuloK@michigan.gov>; Paciorek, Josh (GOV) <Paciorekj@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>; Heaton, Anna (GOV) <HeatonA@michigan.gov>
Subject: Revised DRAFT Flint water action plan. Please review!

Gov. Rick Snyder: Comprehensive action plan will help Flint residents address water concerns

Collaborative effort with state, federal and city leaders focuses on testing, assistance

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The water leaving Flint's drinking water system is safe to drink, but some families with lead plumbing in their homes or connections might experience higher levels of lead in the water that comes out of their faucets.

The action plan focuses on increasing water testing, offering additional precautions for families with lead plumbing in their homes, and providing long-term solutions to address the city's water infrastructure challenges. The plan was created at Snyder's direction by the Michigan Department of Environmental Quality, and the Department of Health and Human Services, the U.S. Environmental Protection Agency, and the City of Flint.

"People are worried about their health and their families, and they need to have accurate information and know that help is available," Snyder said. "Today's action plan builds upon ongoing work with state and federal agencies and our partnership with city and community leaders. Together, we are working to ensure that all Flint residents can feel safe and address potential problems."

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###

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 7:02 PM
To: Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS); Eisner, Jennifer (DHHS)
Subject: FW: Revised DRAFT Flint water infographics
Attachments: FlintWater_ActionPlan_100115.pdf; FlintWater_Tips_100115.pdf

Importance: High

Please make sure you have seen revised version of these infographics for tomorrow and weigh in ASAP. Just slight updates to match earlier changes.

Thanks!

From: Paciorek, Josh (GOV)
Sent: Thursday, October 01, 2015 6:24 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Tommasulo, Karen (DEQ) <TommasuloK@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>; Heaton, Anna (GOV) <HeatonA@michigan.gov>
Subject: RE: Revised DRAFT Flint water action plan. Please review!

Attached are the most recent versions of the 1-pagers

Josh

TAKING ACTION ON FLINT WATER

www.mi.gov/FlintWater

- The Action Plan -

- Testing in Flint public schools immediately to ensure that **drinking water is safe**, with testing also available at no cost to any other school in Flint.
- **Expanding health exposure testing** of individual homes.
- **Offering free water testing** to Flint residents to assure their drinking water is safe.
- **Accelerating an optimization of corrosion controls** in the Flint drinking water system.
- **Expanding a Safe Drinking Water Technical Advisory Committee** to ensure the best technology, practices and science are being followed by adding an expert from the Environmental Protection Agency's Office of Research and Development to the group.
- **Accelerate water system improvements** to address replacing lead service lines.
- Expediting the completion of the **Karegnondi Water Authority** pipeline.
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- **Providing water filters** to residents with concerns or who are included in state assistance programs.
- Creating a **comprehensive lead education program** to make sure residents have detailed information about how to protect themselves and their homes.

To get your water tested for free, please call the city of Flint Water Plant at (810) 787-6537 and then press 1.
You can also email flintwater@cityofflint.com

Visit www.mi.gov/FlintWater for more information

TAKING ACTION ON FLINT WATER

www.mi.gov/FlintWater

- Tips for Flint Residents -

Lead plumbing is common in homes built prior to 1986, and anyone in the state with lead pipes in their home can take some extra precautions to minimize lead in their drinking water.

1. Get your water tested at no cost to ensure water is safe. **To get your water tested**, please call the city of Flint Water Plant at (810) 787-6537 and then press 1.

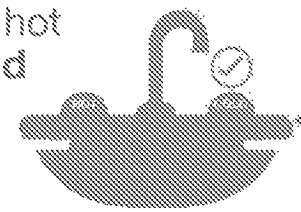
2. To ensure safe drinking water, you can also get a free filter. Please visit **mi.gov/FlintWater** to find where you can get a free filter.

3. If faucets have not been used for an extended period of time, lead particles in drinking water from plumbing can be elevated. **Flushing your pipes prior to using them** can minimize your exposure.

To flush your pipes, run the water until it gets as cold as it will get. This can take as little as 5 to 30 seconds if you have recently flushed the toilet or otherwise used water in your home, or as long as 2 to 3 minutes if you have not used any water in hours.

In the City of Flint, **running the water for 5 minutes costs between 3 and 15 cents.**

4. Additionally, more lead gets into hot water than cold water. **Use only cold water for drinking, cooking and making baby formula.**



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You can also email flintwater@cityofflint.com

Visit www.mi.gov/FlintWater for more information

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 7:27 PM
To: GovCalendar
Subject: Accepted: RDS/Dan Wyant/Nick Lyon/Dr. Eden Wells/JA/SW- LIVE conference call with media regarding Flint water comprehensive action plan

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 10:02 PM
To: Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ)
Subject: Fwd: Friday Press Conference

Who do you guys have on your media lists when the advisory was sent- didn't the Flint TV stations receive this info already? Also just heard from WEYI TV 5.

Sent from my iPhone

Begin forwarded message:

> **From:** "Maloney, Damon" <damon.maloney@abc12.com>
> **Date:** October 1, 2015 at 9:57:14 PM EDT
> **To:** Sara Wurfel <Wurfels@michigan.gov>
> **Cc:** David Murray <murrayd1@Michigan.gov>
> **Subject: Friday Press Conference**
>
> Hello,
>
> We are hearing from newspaper reports that a press conference is set for tomorrow at 1:30 pm at Kettering University with state and city officials to discuss next steps for Flint water.
>
> Wanted to inquire about such a meeting taking place.
>
> Thank you,
> Damon
>
> Damon Maloney
> abc12 News
> Sent from my iPhone

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 10:32 PM
To: 'Maloney, Damon'
Cc: Murray, David (GOV)
Subject: RE: Friday Press Conference

Importance: High

That's absolutely right, Damon.

You and the station should have gotten a media advisory from the DEQ and DHHS teams. A cut and paste version is below just in case. This event is for media only.

Also, for your planning purposes only, we're looking at hosting a conference call with the Governor to walk through some highlights on a fully EMBARGOED (all hold and not reported/aired until the press conference begins) basis. Please let me know if that's workable and WJRT agrees to that. And if so, who would be representing the station.

Oct. 1, 2015

Michigan leaders to announce action plan for Flint drinking water

Friday, Oct. 2 at 1:30 p.m.
Local, state and federal leaders will host a press conference to announce a comprehensive action plan for addressing drinking water concerns in Flint. Participants will include:

- Harvey Hollins, Director of the Office of Urban Initiatives for Gov. Rick Snyder
- Dan Wyant, Director for the Michigan Department of Environmental Quality
- Nick Lyon, Director for the Michigan Department of Health and Human Services
- Dr. Eden Wells, Chief Medical Executive for the Michigan Department of Health and Human Services
- Dayne Walling, Mayor of Flint
- Other local, state and federal officials

Location:
Kettering University, Innovation Center
1300 Bluff St.
Flint, MI 48504

This is a media event open to credentialed news media only. Media who plan to attend this event should RSVP by noon Friday. Contact Rosemarie Olszewski at 517-284-6700 or olszewskir@michigan.gov.

-----Original Message-----
From: Maloney, Damon [mailto:damon.maloney@abc12.com]
Sent: Thursday, October 01, 2015 9:57 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Friday Press Conference

Hello,

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Wanted to inquire about such a meeting taking place.

Thank you,
Damon

Damon Maloney
abc12 News
Sent from my iPhone

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015 10:43 PM
To: 'Maloney, Damon'
Subject: RE: Friday Press Conference

Timing would be 11:15 a.m. -- and yes, please just let us know tomorrow morning.

From: Maloney, Damon [mailto:damon.maloney@abc12.com]
Sent: Thursday, October 01, 2015 10:42 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: Friday Press Conference

Thank you for press conference details.
We agree to the terms of conference call with Governor.

As far as which reporter will do it - it depends on what time it will be taking place. It could be a day side reporter or "afternoon/night side reporter". Is that something we can touch base with you on tomorrow prior to it happening?

Damon

Sent via the Samsung GALAXY S®4, an AT&T 4G LTE smartphone

-------- Original message --------
From: "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>
Date: 10/01/2015 10:32 PM (GMT-05:00)
To: "Maloney, Damon" <damon.maloney@abc12.com>
Cc: "Murray, David (GOV)" <MurrayD1@michigan.gov>
Subject: RE: Friday Press Conference

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Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
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Thank you,
Damon

Damon Maloney
abc12 News
Sent from my iPhone

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 12:05 AM
To: Wyant, Dan (DEQ); Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ); Pallone, Maggie (DEQ); Lyon, Nick (DHHS); Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS); Eisner, Jennifer (DHHS); Hertel, Elizabeth (DHHS)
Cc: Murray, David (GOV); Kennedy, Jordan (GOV); Brown, Jessica (GOV); Thelen, Mary Beth (DEQ)
Subject: Media conference call re: Flint water action plan
Attachments: NR 151002 - Flint water action plan.docx; Infographic - Flint Water Action Plan 10-2-15.pdf; Infographic - Flint water tips 10-2-15.pdf; Flint water - talking points (draft 151001).docx

Importance: High

Hi all –

Per conversations today, here are the details for Friday's embargoed media conference call.

Given some of the changing information, we added in a quick pre-brief with the Governor from 11 to 11:10 a.m. to give us a chance to go over any last details and finalize flow. This will be followed by the actual media conf. call from 11:15 to 11:40 a.m. Know that folks will be needing to head to Flint immediately afterward.

Sounds like we'll have Dan, Nick and Dr. Wells in person. That's great and will work best when most everyone is in the same room. The location is Romney Building, 1st floor communications conference room. The governor will be joining us from phone.

We'll need to be fairly quick in overview and framing comments so we can get to as many Qs as possible.

Please let me know if anyone has any Qs, concerns or needs anything else at all. Or if you'd like a listen only line for anyone back in the depts. to catch the call.

Otherwise, see you in the Romney by 11 a.m. tomorrow.

Thanks so much!
SW

p.s. Also attached key documents as stand right now – release, 2 infographics and the high level points.

Agenda:

11:15-11:16 AM	SW intro; sets parameters; introduces other participants; turns over to Governor for opening remarks
11:16-11:20 AM	Governor gives opening remarks; highlights reason for state action; introduces Director Wyant
11:20-11:24 AM	Director Wyant remarks; highlights key steps in the action plan; introduces Director Lyon
11:24-11:27 AM	Director Lyon remarks; highlights key health components of the plan and mentions Dr. Wells; turns back to Governor
11:27-11:37 AM	Governor opens it up for Q&A
11:37-11:39 AM	Governor closing remarks
11:39-11:40 AM	SW wraps up call; reminds reporters of embargo, 1:30 p.m. press conference, and how to get a hold of everyone

Possible Topics:
Flint water action plan
Lead in Flint water
Handling of Flint water issue
Genesee Co. health emergency action
ACLU action
Hurley data
Reconnecting Flint to Detroit water

Media invited:
Flint area media (print, TV and radio) – Flint Journal/Ron Fonger; WJRT TV 12, WNEM TV 5, WEYI TV 25, WFNT Radio
Associated Press – Ed White
Detroit News – Jim Lynch
Detroit Free Press – Nancy Kaffer, Kristi Tanner & Kathy Gray
Michigan Radio – Steve Carmody

STATE OF MICHIGAN
EXECUTIVE OFFICE
LANSING

RICK SNYDER
GOVERNOR

BRIAN CALLEY
LT. GOVERNOR

CONTACTS:	FOR IMMEDIATE RELEASE
Sara Wurfel or Dave Murray Governor's Office: 517-335-6397 Brad Wurfel, 517-284-6713 or Karen Tommasulo, 517-284-6714 Department of Environmental Quality Jennifer Eisner, 517-230-9804 Department of Health and Human Services	Friday, Oct. 2, 2015

Gov. Rick Snyder: Comprehensive action plan will help Flint residents address water concerns

Collaborative effort with state, federal and city leaders focuses on testing, assistance

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The action plan focuses on increasing water testing, offering additional precautions for families with lead plumbing in their homes, and providing long-term solutions to address the city's water infrastructure challenges. The plan was created at Snyder's direction by the Michigan Departments of Environmental Quality (DEQ) and Health and Human Services (DHHS), the U.S. Environmental Protection Agency, and the city of Flint.

"We are focused on helping ensure safe, clean, accessible drinking water and addressing and mitigating concerns and protecting public health," Snyder said. "Today's action plan builds upon ongoing work with local, state and federal agencies and our partnership with city and community leaders. Together, we are working to ensure that all Flint residents have accurate information and know that help is available to address potential problems."

The city and the state also are working together to gather more data to ensure the water that leaves the treatment plant as well as the water that arrives in Flint homes is safe for all residents. The plan includes:

- Testing in Flint public schools immediately to ensure that drinking water is safe, with testing also available at no cost to any other school in Flint.
- Offering free water testing to Flint residents to assure their drinking water is safe.
- Providing free water filters to residents with concerns or who are included in state assistance programs.
- Expanding health exposure testing of individual homes.

- Accelerating corrosion controls in the Flint drinking water system.
- Accelerating water system improvements to address replacing lead service lines.
- Expediting the completion of the Karegnondi Water Authority pipeline.
- Expanding a Safe Drinking Water Technical Advisory Committee to ensure the best technology, practices and science are being followed by adding an expert from the Environmental Protection Agency's Office of Research and Development to the group.
- Naming Dr. Eden Wells, chief medical executive for the Michigan Department of Health and Human Services, as the Flint drinking water public health adviser.
- Boosting a comprehensive lead education program to make sure residents have detailed information about how to protect themselves and their homes.

Residents can have their water tested by calling 810-787-6537 and pressing 1, or emailing flintwater@cityofflint.com. The DEQ is covering the cost of this testing.

State leaders have been working closely with state and federal lawmakers to tap resources at all levels of government to address concerns.

State health experts said there has been an increase in elevated childhood blood lead levels in some specific communities. Initial analysis of MDHHS data found that blood lead levels of children in Flint have followed an expected seasonal trend. While this analysis for Flint as a whole remains true, a comprehensive and detailed review breaking down data by ZIP codes with the city revealed that MDHHS data is consistent with a study presented recently by Hurley Children's Hospital.

"While we cannot conclusively say that the water source change is the sole cause of the increase, this analysis supports our efforts as we take active steps to reduce all potential lead exposures in Flint," MDHHS Director Nick Lyon said. "As part of this, we are working closely with our public and private partners to provide Flint residents on MDHHS assistance programs with free water filters and inform families about the steps they can take to reduce all lead exposures in their home."

As a part of the action plan, MDHHS is making National Sanitation Foundation certified water filters available to clients who are active Family Independence Program, Food Assistance Program, Child Development and Care or Social Security Insurance recipients.

"This action plan offers concrete steps we will take in a local, state and federal partnership to ensure all Flint residents have safe water to drink," DEQ Director Dan Wyant said. "The DEQ will work closely with the city to gather further data to ensure the water that leaves Flint's system as well as the water that arrives in Flint homes is safe to drink."

Additional information is available at www.michigan.gov/flintwater.

###

TAKING ACTION ON FLINT WATER

www.mi.gov/FlintWater

- The Action Plan -

- Testing in Flint public schools immediately to ensure that **drinking water is safe**, with testing also available at no cost to any other school in Flint.
- **Offering free water testing** to Flint residents to assure their drinking water is safe.
- **Providing free water filters** to residents with concerns or who are included in state assistance programs.
- **Expanding health exposure testing** of individual homes.
- **Accelerating corrosion controls** in the Flint drinking water system.
- **Accelerating water system improvements** to address replacing lead service lines.
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- Naming Dr. Eden Wells, chief medical executive for the Michigan Department of Health and Human Services, as the **Flint drinking water public health adviser**.
- Boosting a **comprehensive lead education program** to make sure residents have detailed information about how to protect themselves and their homes.

To get your water tested for free, please call the city of Flint Water Plant at (810) 787-6537 and then press 1.
You can also email flintwater@cityofflint.com

Visit www.mi.gov/FlintWater for more information

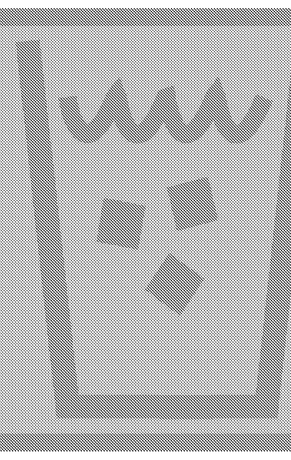
TAKING ACTION ON FLINT WATER

www.mi.gov/FlintWater

- Tips for Flint Residents -

Lead plumbing is common in homes built prior to 1986, and **anyone in the state with lead pipes in their home can take some extra precautions** to minimize lead in their drinking water.

1. Get your water tested at no cost to ensure water is safe. **To get your water tested**, please call the city of Flint Water Plant at (810) 787-6537 and then press 1.

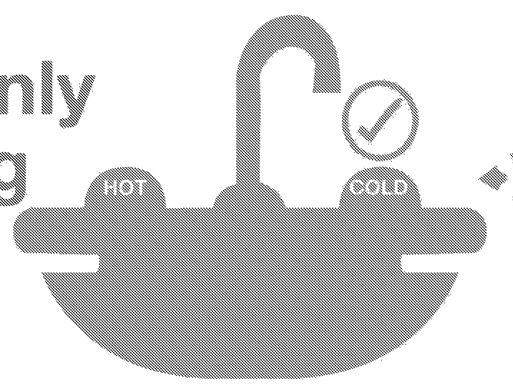


2. To ensure safe drinking water, you can also get a free filter. Please visit **mi.gov/FlintWater** to find where you can get a free filter.

3. It takes time for lead to accumulate in drinking water from plumbing, and so **flushing your pipes prior to using them** can minimize your exposure.

- To flush your pipes, run the water until it's as cold as it will go. This can take as little as 5 to 30 seconds if you have recently flushed the toilet or otherwise used water in your home, or as long as 2 to 5 minutes if you have not used any water in hours.
- In the city of Flint, **running the water for 5 minutes costs between 3 and 16 cents.**

4. Additionally, more lead gets into hot water than cold water. **Use only cold water for drinking, cooking and making baby formula.**



To get your water tested for free, please call the city of Flint Water Plant at (810) 787-6537 and then press 1.
You can also email flintwater@cityofflint.com

Visit **www.mi.gov/FlintWater** for more information

Flint Drinking Water Action Plan
Talking Points

Overall Messaging

- Repeated testing shows the water leaving Flint's drinking water system is safe to drink and meets all federal guidelines, including lead.
- After the switch the Flint River, the compliance testing protocol yielded results of 6 ppb in December 2014 and 11 ppb in June 2015. Both results were below the federal action level of 15 ppb.
- However, we recognize some residents experience higher levels of lead in the water that comes out of their faucets because of lead plumbing in the home, and that's a concern.
- Out of an abundance of caution, we want to address the needs of all Flint families, and so we have developed an action plan that includes both short- and long-term solutions.
- The state plan focuses on increasing water testing, offering additional precautions for families, and providing long-term solutions to address the city's water infrastructure.

Messaging regarding the action plan

The city and the state are working together to gather more data to ensure the water that leaves the treatment plant as well as the water that arrives in Flint homes is safe for all residents.

- **Immediately test Flint public schools to ensure that drinking water is safe. Testing will also be available at no cost to any other school in Flint.**
    - Although Flint's drinking water meets all federal requirements, the state wants to take extra steps to ensure that drinking water is safe for the city's children.
    - The state will fund this testing (about $30,000) at no cost to the city or the local schools, and make the results publicly available.

- **Expand health exposure testing of individual residences.**
    - To double-check its data as well as provide residents with an additional layer of assurance, the DEQ will conduct more tests at Flint properties.
    - The Technical Advisory Committee will determine the scope of this expanded testing.

- **Offer water testing at no cost to Flint residents to assure water is safe.**
    - Although all testing indicates water in the city of Flint meets all federal standards, we understand some residents are concerned.
    - To ensure water in individual homes is safe, free water testing is available to all Flint residents.
    - We encourage anyone with a concern to get their water tested.
    - Contact the city water department to have your water tested.

- **Accelerate optimizing corrosion controls in the Flint drinking water system.**

- A fully optimized corrosion control system can help coat the inside of pipes to minimize the amount of lead that enters the drinking water after it leaves the treatment plant.
- This is a helpful step that can help minimize lead system-wide, and we're pleased the city is moving to take this step.
- If asked: This was not initially required because a fully optimized corrosion control system is not federally required in many water systems. Even today, since Flint is meeting all federal standards, this fully optimized system is not required. However, to address public concerns and ensure every possible precaution is taken, the city is moving forward with installing this corrosion control system.

- **Expand the "Safe Drinking Water Technical Advisory Committee" to ensure the best technology, practices and science are being utilized, and add an expert from the EPA's Office of Research and Development to the group.**
  - The Safe Drinking Water Technical Advisory Committee will meet Oct. 7 to discuss fully optimizing the corrosion control system, expanding testing of at-risk properties, and other topics.
  - Tom Burke, the Deputy Assistant Administrator of EPA's Office of Research and Development as well as the EPA's Science Advisor, will participate on the committee. Prior to joining EPA, he held prominent positions at the Johns Hopkins Bloomberg School of Public Health and founded the Johns Hopkins Risk Sciences and Public Policy Institute. He brings substantial expertise, and we're pleased he is able join the committee.

- **Accelerate water system improvements to address replacement of lead service lines.**
  - Regardless of the drinking water source – whether it be DWSD, the Flint River or Lake Huron – the only permanent fix for lead is to replace all 18,000 of the private lead service lines in the city. These are the lines on private property that lead from the curb to individual homes.
  - This is a problem in communities statewide, and one we want to address with a long-term solution.
  - The state and EPA are working together to find a way for the city to access Drinking Water Revolving Loan funds for the work.

- **Expedite completion of Karegnondi Water Authority.**
  - The move to the Flint River was always a temporary measure until the connection to the KWA and to Lake Huron was completed.
  - This is the ultimate goal of the venture, and the state and locals will work together to speed up completion of the connection.
  -

- **Name Dr. Eden Wells as Flint Drinking Water Public Health Advisor.**
  - Dr. Wells is the Director for the Preventive Medicine Residency at the University of Michigan School of Public Health in Ann Arbor as well as the Chief Medical Executive for MDHHS.

- She brings years of experience in epidemiology and preventative medicine to the issue, and we're thrilled to have her expertise.
- Dr. Wells will coordinate with Hurley Medical Center to share data on blood lead levels in children, as well as address other emerging issues.

- **Provide water filters to residents of Flint.**
  - As an additional precaution, water filters will be available to low-income families.
  - This provides another safeguard to ensure everyone in the city of Flint has access to clean drinking water that they feel confident drinking.

- **Expand a comprehensive lead education initiative.**
  - Lead plumbing is common in homes built prior to 1986, and anyone in the state with lead pipes in their home can take some extra precautions to minimize lead in their drinking water.
  - It takes time for lead to accumulate in drinking water from plumbing, and so flushing your pipes prior to using them can minimize your exposure.
    - To flush your pipes, run the water until it's as cold as it will go. This can take as little as 5 to 30 seconds if you have recently flushed the toilet or otherwise used water in your home, or as long as 2 to 5 minutes if you have not used any water in hours.
    - In the city of Flint, running the water for 5 minutes only costs about 3-16 cents, depending on your faucet.
  - Additionally, more lead gets into hot water than cold water. Use only cold water for drinking, cooking and making baby formula.

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 12:09 AM
To: 'Dave Bondy'
Subject: RE: NBC 25 Request

Greetings, Dave –

You and the station should have gotten a media advisory from the DEQ and DHHS teams about a news conference tomorrow in Flint – though the Governor won't be there for that specific event. A cut and paste version is below just in case. This event is for media only.

However and for your planning purposes only, we're looking at hosting a conference call with the Governor at about 11:15 a.m. to answer Qs and walk through some highlights on a fully EMBARGOED (all held and not reported/aired until the press conference begins) basis. Please let me know if that's workable and WEYI agrees to that. And if so, who would be representing the station.

Thanks and look forward to working with you on this.
SW

Oct. 1, 2015

Michigan leaders to announce action plan for Flint drinking water

Friday, Oct. 2 at 1:30 p.m.
Local, state and federal leaders will host a press conference to announce a comprehensive action plan for addressing drinking water concerns in Flint. Participants will include:

* Harvey Hollins, Director of the Office of Urban Initiatives for Gov. Rick Snyder
* Dan Wyant, Director for the Michigan Department of Environmental Quality
* Nick Lyon, Director for the Michigan Department of Health and Human Services
* Dr. Eden Wells, Chief Medical Executive for the Michigan Department of Health and Human Services
* Dayne Walling, Mayor of Flint
* Other local, state and federal officials

Location:
Kettering University, Innovation Center
1300 Bluff St.
Flint, MI 48504

This is a media event open to credentialed news media only. Media who plan to attend this event should RSVP by noon Friday. Contact Rosemarie Olszewski at 517-284-6700 or olszewskir@michigan.gov.

From: Dave Bondy [mailto:dbondy@sbgtv.com]
Sent: Thursday, October 01, 2015 6:30 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: NBC 25 Request

I am hearing reports the governor is coming to Flint tomorrow to address Flint water?

Dave Bondy

Anchor/Reporter
dbondysbgtv.com
CELL– PPI

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 9:21 AM
To: Lange, Michelle (GOV)
Subject: RE: HIGH PRIORITY: Updated Flint water action plan

No, provided you've connected with and heard from Maggie P at DEQ. They were reaching out to local legislators -- Ananich, Neely and Phelps -- to fill them in on plan and invite them. Just want to make sure everyone is loop and aware of everything.

Haven't heard latest on that yet.

From: Lange, Michelle (GOV)
Sent: Friday, October 02, 2015 8:23 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: HIGH PRIORITY: Updated Flint water action plan

Good morning- just went through it, doesn't look like you need leg to make any calls, but wanted to double check in case I'm missing something.

Thanks!

M.

From: Wurfel, Sara (GOV)
Sent: Thursday, October 1, 2015 11:42 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Posthumus, Dick (GOV) <Posthumusd@michigan.gov>; Walsh, John (GOV) <WalshJ@michigan.gov>; Priest, Chris (GOV) <PriestC1@michigan.gov>; Ackerman, Darin (GOV) <ackermand3@michigan.gov>; Lange, Michelle (GOV) <LangeM3@michigan.gov>; Mcbride, Bill (GOV) <mcbrideb@michigan.gov>; Brown, Eric (GOV) <BrownE15@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>
Cc: Wisniewski, Wendy (GOV) <wisniewskiw@michigan.gov>; Clayton, Stacie (GOV) <claytons3@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>; Paciorek, Josh (GOV) <Paciorekj@michigan.gov>
Subject: HIGH PRIORITY: Updated Flint water action plan
Importance: High

Hi all –

Attached are several items pulled together to help announce the new comprehensive action plan related to Flint water tomorrow. This build upon past efforts and as aimed to be a real collaborative effort with local, state and federal agencies, along with city and community leaders. These items are:

- News release
- Infographics – one to summarize action plan and one to help highlight the tips for Flint residents

- High level points

The Governor, along with Dan Wyant, Nick Lyon, and Dr. Eden Wells are slated to do an embargoed media conference call with select reporters at 11:15 a.m. tomorrow.

This will be followed by a 1:30 p.m. press conference in Flint led by Directors Wyant and Lyon, moderated by Harvey, and including Dr. Wells and Flint Mayor Dayne Walling. EPA Region 5 Administrator Susan Headman dropped out late today due to some pending litigation. It's possible that Cong. Kildee and/or State Sen. Anaich and State Reps. Neely and Phelps may be participating as well.

There will also be a clearinghouse of Flint water information available at a new web site – www.michigan.gov/FlintWater. It will be live at 1 p.m. tomorrow.

Please review and let us know of any Qs, concerns, last edits, of if anything else is needed at all.

They are going through last review and refinement now. Please do not share materials until we know they are final.

Thanks much,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 9:34 AM
To: Kathy Gray - Detroit Free Press; Nancy Kaffer - Detroit Free Press; Robin Erb - Detroit Free Press; Kristi Tanner - Detrot Free Press
Subject: Embargoed media conf. call - Flint water action plan

Importance: High

Hi Kathy, Robin, Nancy & Kristi –

Per earlier conversations, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

As agreed by you and your teams, this information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.

SPECIFIC CALL-IN DETAILS:
Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.
Conference Line call-in number: PPI
Conference line passcode PPI
** To ask a question during that portion of the call, please press "0." (but please refrain from pressing zero until opening remarks are completed to help ensure you don't miss any of the details).

****NOTE**:** This invitation is for planning purposes only and meant for you and/or your outlet as there are a limited number of participant lines. Please let us know if you wish to have someone else participate so we can work to accommodate.

Please let us know if who from Detroit Free Press plan to participate or if you need anything else at all.

Thanks so much,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter: @SaraLW

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 9:38 AM
To: Damon Maloney - WJRT TV 12
Subject: Embargoed media conf. call - Flint water action plan

Importance: High

Hi there Damon -

Per earlier conversations, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

As agreed by you and your team, this information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.

SPECIFIC CALL-IN DETAILS:
Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.
Conference Line call-in number: PPI
Conference line passcode: PPI
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Thanks so much,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 9:48 AM
To: 'Lynch, James'; Chad Livengood - Detroit News
Subject: Embargoed media conf. call - Flint water action plan

Importance: High

Hi there Jim and Chad –

Per earlier conversations, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

As agreed by you and your team, this information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.

SPECIFIC CALL-IN DETAILS:
Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.
Conference Line call-in number: PPI
Conference line passcode: PPI
** To ask a question during that portion of the call, please press "0." (but please refrain from pressing zero until opening remarks are completed to help ensure you don't miss any of the details).

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Please let us know if who from Detroit News plans to participate or if you need anything else at all in interim.

Thanks so much,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 9:49 AM
To: Ron Fonger - MLive/Flint Journal
Subject: Embargoed media conf. call - Flint water action plan

Importance: High

Hi there Ron -

Per earlier conversation, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

As agreed by you and your Flint Journal/MLive team, this information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.

SPECIFIC CALL-IN DETAILS:
Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.
Conference Line call-in number: PPI
Conference line passcode: PPI
** To ask a question during that portion of the call, please press "0." (but please refrain from pressing zero until opening remarks are completed to help ensure you don't miss any of the details).

****NOTE**:** This invitation is for planning purposes only and meant for you and/or your outlet as there are a limited number of participant lines. Please let us know if you wish to have someone else participate so we can work to accommodate.

Please let me know if you need anything else at all in interim.

Thanks so much,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 9:54 AM
To: 'Zacharek, Dan'; Murray, David (GOV)
Subject: RE: WXYZ-TV

Importance: High

Hi there Dan –

Per earlier conversation, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

As agreed by you and WXYZ team, this information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.

SPECIFIC CALL-IN DETAILS:
Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.
Conference Line call-in number: PPI
Conference line passcode: PPI
** To ask a question during that portion of the call, please press "0." (but please refrain from pressing zero until opening remarks are completed to help ensure you don't miss any of the details).

****NOTE**:** This invitation is for planning purposes only and meant for you and/or your outlet as there are a limited number of participant lines. Please let us know if you wish to have someone else participate so we can work to accommodate.

Please let us know if who from CH 7 plans to participate or if you need anything else at all in interim.

Thanks and best,
SW

From: Zacharek, Dan [mailto:DZacharek@wxyz.com]
Sent: Friday, October 02, 2015 9:44 AM
To: Wurfels, Sara (GOV) <WurfelS@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: WXYZ-TV

Hi Sara and David,

Hope you are well. Checking to see if someone can please send me the info on today's 11:30am teleconference call about the Flint water situation.

Thank you.

Dan Z.

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From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 9:54 AM
To: GovCalendar
Subject: Accepted: RDS - Pre-Brief for Flint Water Media Conference Call

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 10:02 AM
To: David Eggert - AP
Subject: Embargoed media conf. call - Flint water action plan

Importance: High

Hi there Dave-

Per our earlier conversation, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

As agreed by you and your AP team, this information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.

SPECIFIC CALL-IN DETAILS:
Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.
Conference Line call-in number: PPI
Conference line passcode: PPI
** To ask a question during that portion of the call, please press "0." (but please refrain from pressing zero until opening remarks are completed to help ensure you don't miss any of the details).

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Please let me know if you need anything else at all in interim.

Thanks so much,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 10:05 AM
To: 'Andrew Moore'
Cc: Dave Bondy; Neille-Ann Giffune; Michael Schram
Subject: RE: From NBC 25/Fox 66 in Flint

Importance: High

Hi there Drew -

Per earlier exchange, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

As agreed by you and TV 26/Fox 66 teams, this information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.

SPECIFIC CALL-IN DETAILS:
Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.
Conference Line call-in number: PPI onference line passcode: PPI
** To ask a question during that portion of the call, please press "0." (but please refrain from pressing zero until opening remarks are completed to help ensure you don't miss any of the details).

NOTE: This invitation is for planning purposes only and meant for you and/or your outlet as there are a limited number of participant lines. Please let us know if you wish to have someone else participate so we can work to accommodate.

-----Original Message-----
From: Andrew Moore [mailto:amoore@sbgtv.com]
Sent: Friday, October 02, 2015 12:34 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Dave Bondy <dbondy@sbgtv.com>; Neille-Ann Giffune <ngiffune@sbgtv.com>; Michael Schram <mschram@sbgtv.com>
Subject: From NBC 25/Fox 66 in Flint

My name is Drew Moore and I will be doing the story tomorrow regarding the announcement. I just need a number to call and we will be on the line . Hopefully this is great news for the residents of Flint. How much time will we have to ask questions about the announcement to the governor?

Drew Moore
Reporter

Sent from my iPhone

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 10:08 AM
To: Hansen, Rachel (GOV)
Subject: FW: Media conference call re: Flint water action plan
Attachments: NR 151002 - Flint water action plan.docx; Infographic - Flint Water Action Plan 10-2-15.pdf; Infographic - Flint water tips 10-2-15.pdf; Flint water - talking points (draft 151001).docx

Importance: High

From: Wurfel, Sara (GOV)
Sent: Thursday, October 01, 2015
To: Wyant, Dan (DEQ) <WyantD@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Tommasulo, Karen (DEQ) <TommasuloK@michigan.gov>; Pallone, Maggie (DEQ) <PalloneM@michigan.gov>; Lyon, Nick (DHHS) <LyonN2@michigan.gov>; Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>; Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>; Hertel, Elizabeth (DHHS) <HertelE@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>; Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>; Thelen, Mary Beth (DEQ) <THELENM2@michigan.gov>
Subject: Media conference call re: Flint water action plan
Importance: High

Hi all –

Per conversations today, here are the details for Friday's embargoed media conference call.

Given some of the changing information, we added in a quick pre-brief with the Governor from 11 to 11:10 a.m. to give us a chance to go over any last details and finalize flow. This will be followed by the actual media conf. call from 11:15 to 11:40 a.m. Know that folks will be needing to head to Flint immediately afterward.

Sounds like we'll have Dan, Nick and Dr. Wells in person. That's great and will work best when most everyone is in the same room. The location is Romney Building, 1st floor communications conference room. The governor will be joining us from phone.

We'll need to be fairly quick in overview and framing comments so we can get to as many Qs as possible.

Please let me know if anyone has any Qs, concerns or needs anything else at all. Or if you'd like a listen only line for anyone back in the depts. to catch the call.

Otherwise, see you in the Romney by 11 a.m. tomorrow.

Thanks so much!
SW

p.s. Also attached key documents as stand right now – release, 2 infographics and the high level points.

Agenda:
11:15-11:16 AM SW intro; sets parameters; introduces other participants; turns over to Governor for opening remarks

11:16-11:20 AM Governor gives opening remarks; highlights reason for state action; introduces Director Wyant
11:20-11:24 AM Director Wyant remarks; highlights key steps in the action plan; introduces Director Lyon
11:24-11:27 AM Director Lyon remarks; highlights key health components of the plan and mentions Dr. Wells; turns back to Governor
11:27-11:37 AM Governor opens it up for Q&A
11:37-11:39 AM Governor closing remarks
11:39-11:40 AM SW wraps up call; reminds reporters of embargo, 1:30 p.m. press conference, and how to get a hold of everyone

Possible Topics:
Flint water action plan
Lead in Flint water
Handling of Flint water issue
Genesee Co. health emergency action
ACLU action
Hurley data
Reconnecting Flint to Detroit water

Media invited:
Flint area media (print, TV and radio) – Flint Journal/Ron Fonger; WJRT TV 12, WNEM TV 5, WEYI TV 25, WFNT Radio
Associated Press – Ed White
Detroit News – Jim Lynch
Detroit Free Press – Nancy Kaffer, Kristi Tanner & Kathy Gray
Michigan Radio – Steve Carmody

STATE OF MICHIGAN
EXECUTIVE OFFICE
LANSING

RICK SNYDER
GOVERNOR

BRIAN CALLEY
LT. GOVERNOR

CONTACTS:	FOR IMMEDIATE RELEASE
Sara Wurfel or Dave Murray Governor's Office: 517-335-6397 Brad Wurfel, 517-284-6713 or Karen Tommasulo, 517-284-6714 Department of Environmental Quality Jennifer Eisner, 517-230-9804 Department of Health and Human Services	Friday, Oct. 2, 2015

Gov. Rick Snyder: Comprehensive action plan will help Flint residents address water concerns

Collaborative effort with state, federal and city leaders focuses on testing, assistance

FLINT, Mich. – Flint residents need to have access to safe, clean, water now and long into the future, Gov. Rick Snyder said, announcing a comprehensive action plan created with state, federal and city leaders to address concerns about drinking water.

The water leaving Flint's drinking water system is safe to drink, but some families with lead plumbing in their homes or service connections could experience higher levels of lead in the water that comes out of their faucets.

The action plan focuses on increasing water testing, offering additional precautions for families with lead plumbing in their homes, and providing long-term solutions to address the city's water infrastructure challenges. The plan was created at Snyder's direction by the Michigan Departments of Environmental Quality (DEQ) and Health and Human Services (DHHS), the U.S. Environmental Protection Agency, and the city of Flint.

"We are focused on helping ensure safe, clean, accessible drinking water and addressing and mitigating concerns and protecting public health," Snyder said. "Today's action plan builds upon ongoing work with local, state and federal agencies and our partnership with city and community leaders. Together, we are working to ensure that all Flint residents have accurate information and know that help is available to address potential problems."

The city and the state also are working together to gather more data to ensure the water that leaves the treatment plant as well as the water that arrives in Flint homes is safe for all residents. The plan includes:

- Testing in Flint public schools immediately to ensure that drinking water is safe, with testing also available at no cost to any other school in Flint.
- Offering free water testing to Flint residents to assure their drinking water is safe.
- Providing free water filters to residents with concerns or who are included in state assistance programs.
- Expanding health exposure testing of individual homes.

- Accelerating corrosion controls in the Flint drinking water system.
- Accelerating water system improvements to address replacing lead service lines.
- Expediting the completion of the Karegnondi Water Authority pipeline.
- Expanding a Safe Drinking Water Technical Advisory Committee to ensure the best technology, practices and science are being followed by adding an expert from the Environmental Protection Agency's Office of Research and Development to the group.
- Naming Dr. Eden Wells, chief medical executive for the Michigan Department of Health and Human Services, as the Flint drinking water public health adviser.
- Boosting a comprehensive lead education program to make sure residents have detailed information about how to protect themselves and their homes.

Residents can have their water tested by calling 810-787-6537 and pressing 1, or emailing flintwater@cityofflint.com. The DEQ is covering the cost of this testing.

State leaders have been working closely with state and federal lawmakers to tap resources at all levels of government to address concerns.

State health experts said there has been an increase in elevated childhood blood lead levels in some specific communities. Initial analysis of MDHHS data found that blood lead levels of children in Flint have followed an expected seasonal trend. While this analysis for Flint as a whole remains true, a comprehensive and detailed review breaking down data by ZIP codes with the city revealed that MDHHS data is consistent with a study presented recently by Hurley Children's Hospital.

"While we cannot conclusively say that the water source change is the sole cause of the increase, this analysis supports our efforts as we take active steps to reduce all potential lead exposures in Flint," MDHHS Director Nick Lyon said. "As part of this, we are working closely with our public and private partners to provide Flint residents on MDHHS assistance programs with free water filters and inform families about the steps they can take to reduce all lead exposures in their home."

As a part of the action plan, MDHHS is making National Sanitation Foundation certified water filters available to clients who are active Family Independence Program, Food Assistance Program, Child Development and Care or Social Security Insurance recipients.

"This action plan offers concrete steps we will take in a local, state and federal partnership to ensure all Flint residents have safe water to drink," DEQ Director Dan Wyant said. "The DEQ will work closely with the city to gather further data to ensure the water that leaves Flint's system as well as the water that arrives in Flint homes is safe to drink."

Additional information is available at www.michigan.gov/flintwater.

###

TAKING ACTION ON FLINT WATER

www.mi.gov/FlintWater

- The Action Plan -

- Testing in Flint public schools immediately to ensure that **drinking water is safe**, with testing also available at no cost to any other school in Flint.
- **Offering free water testing** to Flint residents to assure their drinking water is safe.
- **Providing free water filters** to residents with concerns or who are included in state assistance programs.
- **Expanding health exposure testing** of individual homes.
- **Accelerating corrosion controls** in the Flint drinking water system.
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- Naming Dr. Eden Wells, chief medical executive for the Michigan Department of Health and Human Services, as the **Flint drinking water public health adviser**.
- Boosting a **comprehensive lead education program** to make sure residents have detailed information about how to protect themselves and their homes.

To get your water tested for free, please call the city of Flint Water Plant at (810) 787-6537 and then press 1.
You can also email flintwater@cityofflint.com

Visit www.mi.gov/FlintWater for more information

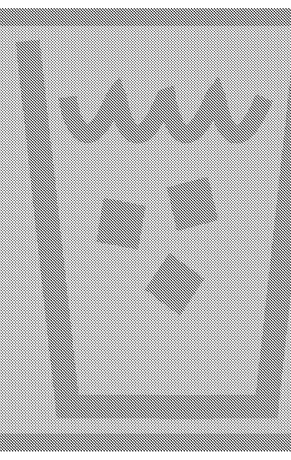
TAKING ACTION ON FLINT WATER

www.mi.gov/FlintWater

- Tips for Flint Residents -

Lead plumbing is common in homes built prior to 1986, and **anyone in the state with lead pipes in their home can take some extra precautions** to minimize lead in their drinking water.

1. Get your water tested at no cost to ensure water is safe. **To get your water tested**, please call the city of Flint Water Plant at (810) 787-6537 and then press 1.

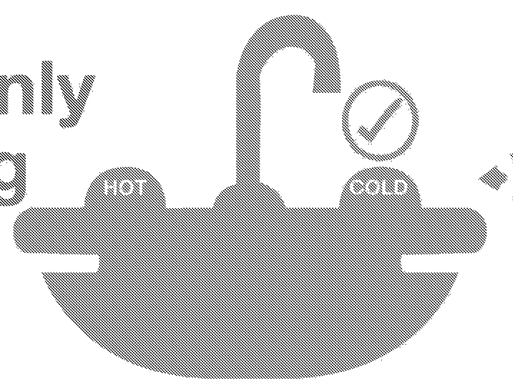


2. To ensure safe drinking water, you can also get a free filter. Please visit **mi.gov/FlintWater** to find where you can get a free filter.

3. It takes time for lead to accumulate in drinking water from plumbing, and so **flushing your pipes prior to using them** can minimize your exposure.

- To flush your pipes, run the water until it's as cold as it will go. This can take as little as 5 to 30 seconds if you have recently flushed the toilet or otherwise used water in your home, or as long as 2 to 5 minutes if you have not used any water in hours.
- In the city of Flint, **running the water for 5 minutes costs between 3 and 16 cents.**

4. Additionally, more lead gets into hot water than cold water. **Use only cold water for drinking, cooking and making baby formula.**



To get your water tested for free, please call the city of Flint Water Plant at (810) 787-6537 and then press 1.
You can also email flintwater@cityofflint.com

Visit **www.mi.gov/FlintWater** for more information

Flint Drinking Water Action Plan
Talking Points

Overall Messaging

- Repeated testing shows the water leaving Flint's drinking water system is safe to drink and meets all federal guidelines, including lead.
- After the switch the Flint River, the compliance testing protocol yielded results of 6 ppb in December 2014 and 11 ppb in June 2015. Both results were below the federal action level of 15 ppb.
- However, we recognize some residents experience higher levels of lead in the water that comes out of their faucets because of lead plumbing in the home, and that's a concern.
- Out of an abundance of caution, we want to address the needs of all Flint families, and so we have developed an action plan that includes both short- and long-term solutions.
- The state plan focuses on increasing water testing, offering additional precautions for families, and providing long-term solutions to address the city's water infrastructure.

Messaging regarding the action plan

The city and the state are working together to gather more data to ensure the water that leaves the treatment plant as well as the water that arrives in Flint homes is safe for all residents.

- **Immediately test Flint public schools to ensure that drinking water is safe. Testing will also be available at no cost to any other school in Flint.**
    - Although Flint's drinking water meets all federal requirements, the state wants to take extra steps to ensure that drinking water is safe for the city's children.
    - The state will fund this testing (about $30,000) at no cost to the city or the local schools, and make the results publicly available.

- **Expand health exposure testing of individual residences.**
    - To double-check its data as well as provide residents with an additional layer of assurance, the DEQ will conduct more tests at Flint properties.
    - The Technical Advisory Committee will determine the scope of this expanded testing.

- **Offer water testing at no cost to Flint residents to assure water is safe.**
    - Although all testing indicates water in the city of Flint meets all federal standards, we understand some residents are concerned.
    - To ensure water in individual homes is safe, free water testing is available to all Flint residents.
    - We encourage anyone with a concern to get their water tested.
    - Contact the city water department to have your water tested.

- **Accelerate optimizing corrosion controls in the Flint drinking water system.**

- A fully optimized corrosion control system can help coat the inside of pipes to minimize the amount of lead that enters the drinking water after it leaves the treatment plant.
- This is a helpful step that can help minimize lead system-wide, and we're pleased the city is moving to take this step.
- If asked: This was not initially required because a fully optimized corrosion control system is not federally required in many water systems. Even today, since Flint is meeting all federal standards, this fully optimized system is not required. However, to address public concerns and ensure every possible precaution is taken, the city is moving forward with installing this corrosion control system.

- **Expand the "Safe Drinking Water Technical Advisory Committee" to ensure the best technology, practices and science are being utilized, and add an expert from the EPA's Office of Research and Development to the group.**
  - The Safe Drinking Water Technical Advisory Committee will meet Oct. 7 to discuss fully optimizing the corrosion control system, expanding testing of at-risk properties, and other topics.
  - Tom Burke, the Deputy Assistant Administrator of EPA's Office of Research and Development as well as the EPA's Science Advisor, will participate on the committee. Prior to joining EPA, he held prominent positions at the Johns Hopkins Bloomberg School of Public Health and founded the Johns Hopkins Risk Sciences and Public Policy Institute. He brings substantial expertise, and we're pleased he is able join the committee.

- **Accelerate water system improvements to address replacement of lead service lines.**
  - Regardless of the drinking water source – whether it be DWSD, the Flint River or Lake Huron – the only permanent fix for lead is to replace all 18,000 of the private lead service lines in the city. These are the lines on private property that lead from the curb to individual homes.
  - This is a problem in communities statewide, and one we want to address with a long-term solution.
  - The state and EPA are working together to find a way for the city to access Drinking Water Revolving Loan funds for the work.

- **Expedite completion of Karegnondi Water Authority.**
  - The move to the Flint River was always a temporary measure until the connection to the KWA and to Lake Huron was completed.
  - This is the ultimate goal of the venture, and the state and locals will work together to speed up completion of the connection.
  -

- **Name Dr. Eden Wells as Flint Drinking Water Public Health Advisor.**
  - Dr. Wells is the Director for the Preventive Medicine Residency at the University of Michigan School of Public Health in Ann Arbor as well as the Chief Medical Executive for MDHHS.

- She brings years of experience in epidemiology and preventative medicine to the issue, and we're thrilled to have her expertise.
- Dr. Wells will coordinate with Hurley Medical Center to share data on blood lead levels in children, as well as address other emerging issues.

- **Provide water filters to residents of Flint.**
  - As an additional precaution, water filters will be available to low-income families.
  - This provides another safeguard to ensure everyone in the city of Flint has access to clean drinking water that they feel confident drinking.

- **Expand a comprehensive lead education initiative.**
  - Lead plumbing is common in homes built prior to 1986, and anyone in the state with lead pipes in their home can take some extra precautions to minimize lead in their drinking water.
  - It takes time for lead to accumulate in drinking water from plumbing, and so flushing your pipes prior to using them can minimize your exposure.
    - To flush your pipes, run the water until it's as cold as it will go. This can take as little as 5 to 30 seconds if you have recently flushed the toilet or otherwise used water in your home, or as long as 2 to 5 minutes if you have not used any water in hours.
    - In the city of Flint, running the water for 5 minutes only costs about 3-16 cents, depending on your faucet.
  - Additionally, more lead gets into hot water than cold water. Use only cold water for drinking, cooking and making baby formula.

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 10:35 AM
To: 'Kaffer, Nancy'; Gray, Kathleen; Erb, Robin; Kristi Tanner - Detrot Free Press
Subject: RE: Embargoed media conf. call - Flint water action plan

Ok, if you guys can work to be on as few separate lines as possible, that's key.

There will be other media on call.

From: Kaffer, Nancy [mailto:nkaffer@freepress.com]
Sent: Friday, October 02, 2015 10:34 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Gray, Kathleen <kgray@freepress.com>; Erb, Robin <rerb@freepress.com>; Kristi Tanner - Detrot Free Press <ktanne@freepress.com>
Subject: RE: Embargoed media conf. call - Flint water action plan

Hi Sara – I think you can expect myself, Kathy, Robin, editors TBD and probably Keith Matheny and Stephen. Is this with Freep only or will other media be on the call?

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Friday, October 02, 2015 9:34 AM
To: Gray, Kathleen <kgray@freepress.com>; Kaffer, Nancy <nkaffer@freepress.com>; Erb, Robin <rerb@freepress.com>; Kristi Tanner - Detrot Free Press <ktanne@freepress.com>
Subject: Embargoed media conf. call - Flint water action plan
Importance: High

Hi Kathy, Robin, Nancy & Kristi –

Per earlier conversations, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

As agreed by you and your teams, this information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.

SPECIFIC CALL-IN DETAILS:
Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.
Conference Line call-in number: PPI
Conference line passcode: PPI
** To ask a question during that portion of the call, please press "0." (but please refrain from pressing zero until opening remarks are completed to help ensure you don't miss any of the details).

NOTE:** This invitation is for planning purposes only and meant for you and/or your outlet as there are a limited number of participant lines. Please let us know if you wish to have someone else participate so we can work to accommodate.

Please let us know if who from Detroit Free Press plan to participate or if you need anything else at all.

Thanks so much,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 10:48 AM
To: Rick Pluta - MPRN; Zoe Clark - MI Radio
Subject: Embargoed media conf. call - Flint water action plan

Importance: High

Hi there Pluta and Zoe -

Per earlier conversation, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

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Please let me know if you need anything else at all in interim.

Thanks so much,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 10:52 AM
To: Steve Carmody - Michigan Radio
Subject: FW: Embargoed media conf. call - Flint water action plan

Importance: High

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 10:48 AM
To: Rick Pluta - MPRN <rickp@mprn.org>; Zoe Clark - MI Radio <zoeclark@umich.edu>
Subject: Embargoed media conf. call - Flint water action plan
Importance: High

Hi there Pluta and Zoe -

Per earlier conversation, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

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Please let me know if you need anything else at all in interim.

Thanks so much,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 11:24 AM
To: Maloney, Damon
Subject: Re: Embargoed media conf. call - Flint water action plan

Absolutely

Sent from my iPhone

On Oct 2, 2015, at 11:13 AM, Maloney, Damon <damon.maloney@abc12.com> wrote:

> Hi Sara - we can record audio from 1115 conference call- fully understanding all is embargoed until 130 news conference at Kettering ??
>
> Damon Maloney
> abc12 News
> Sent from my iPhone
>
> On Oct 2, 2015, at 9:38 AM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:
>
> > Hi there Damon -
> >
> > Per earlier conversations, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.
> >
> > They will also be available to answer Qs.
> >
> > As agreed by you and your team, this information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.
> >
> > SPECIFIC CALL-IN DETAILS:
> > **Topic**: Flint water action plan
> > **Date**: Friday, Oct. 2
> > **Time**: 11:15 a.m.
> > **Conference Line call-in number**: PPI
> > **Conference line passcode:** PPI
> > ** To ask a question during that portion of the call, please press "0." (but please refrain from pressing zero until opening remarks are completed to help ensure you don't miss any of the details).
> >
> > **NOTE**: This invitation is for planning purposes only and meant for you and/or your outlet as there are a limited number of participant lines. Please let

us know if you wish to have someone else participate so we can work to accommodate.

Thanks so much,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 11:30 AM
To: Davey, Monica
Cc: Murray, David (GOV)
Subject: Re: Monica checking

Hi there Monica -

Governor not in Flint today but he's hosting an embargoed media conf right NOW. If you can join us, please do. I can walk you through afterward too if not.

Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

This information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.

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Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.
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Please let me know if you need anything else at all in interim.

Sent from my iPhone

On Oct 2, 2015, at 11:01 AM, Davey, Monica <davey@nytimes.com> wrote:

> Sara and Dave:
> Is the governor going to be at the Flint Water presser?
> If not, will he have remarks after?
> If there are plans for a trip there, when is he expecting to go there?
> Thanks
> Monica

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 11:53 AM
To: Pallone, Maggie (DEQ); Wyant, Dan (DEQ); Tommasulo, Karen (DEQ); Wurfel, Brad (DEQ)
Subject: Fwd: Embargoed media conf. call - Flint water action plan

Answer is yes - but what was total number of traditional and charter public schools again?

Sent from my iPhone

Begin forwarded message:

> **From:** "Livengood, Chad" <CLivengood@detroitnews.com>
> **Date:** October 2, 2015 at 11:47:46 AM EDT
> **To:** "Wurfel, Sara (GOV)" <WurfelS@michigan.gov>, "Murray, David (GOV)" <MurrayD1@michigan.gov>
> **Cc:** "Lynch, James" <JLynch@detroitnews.com>
> **Subject: RE: Embargoed media conf. call - Flint water action plan**
>
> Sara or Dave,
>
> Quick follow-up question: In reference to the plan to immediately test water coming out of the faucets of all schools in Flint Community Schools, will the water at Flint's public charter schools be tested as well? I don't have an exact count, but I'm guessing there are a half-dozen or more charter schools in Flint.
>
> -Chad
>
> ---
> Chad Livengood
> Capitol Reporter
> The Detroit News
> Lansing bureau: (517) 371-3660
> Cell: PPI
> clivengood@detroitnews.com
> Twitter.com/ChadLivengood
>
> ---
>
> **From:** Wurfel, Sara (GOV) [mailto:WurfelS@michigan.gov]
> **Sent:** Friday, October 02, 2015 9:48 AM
> **To:** Lynch, James <JLynch@detroitnews.com>; Livengood, Chad <CLivengood@detroitnews.com>
> **Subject:** Embargoed media conf. call - Flint water action plan
> **Importance:** High
>
> Hi there Jim and Chad –
>
> Per earlier conversations, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of

Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

They will also be available to answer Qs.

As agreed by you and your team, this information is fully embargoed until when the 1:30 p.m. press conference later today in Flint begins.

SPECIFIC CALL-IN DETAILS:
Topic: Flint water action plan
Date: Friday, Oct. 2
Time: 11:15 a.m.
Conference Line call-in number: PPI
Conference line passcode: PPI
** To ask a question during that portion of the call, please press "0." (but please refrain from pressing zero until opening remarks are completed to help ensure you don't miss any of the details).

****NOTE**:** This invitation is for planning purposes only and meant for you and/or your outlet as there are a limited number of participant lines. Please let us know if you wish to have someone else participate so we can work to accommodate.

Please let us know if who from Detroit News plans to participate or if you need anything else at all in interim.

Thanks so much,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 12:31 PM
To: Pallone, Maggie (DEQ); Wyant, Dan (DEQ); Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ)
Subject: Fwd: Follow-up questions

Sent from my iPhone

Begin forwarded message:

From: "Kaffer, Nancy" <nkaffer@freepress.com>
Date: October 2, 2015 at 12:05:53 PM EDT
To: "Wurfel, Sara (GOV)" <WurfelS@michigan.gov>
Subject: Follow-up questions

- Reviewing my notes, I'm not sure I got a definitive answer from Wyant about corrosion control at the Flint water treatment plant.
  Was corrosion control in use? I'd like a simple yes or no, here – if no, obviously, why not – if yes, what was it, and why was – if any – what sounds like a lesser degree of corrosion control being used? I would like the names of the specific technologies/chemicals that were in use in the past, if in fact corrosion control was being used at the Flint plant, and the specific technologies that will be used going forward.
- Was the MDEQ unaware that there were aging lead service lines in Flint, and that those would increase the lead risk? Were the Flint water treatment folks? Why was this not taken into account in developing the water treatment count?
- Wyant said that "two consecutive back to back tests" showed there was a problem; when were those tests performed and when were the results available?

Obviously I would like to use this information in a piece we'll have ready to go at 1:30p so ASAP would be great.

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
PPI
@nancykaffer, @abettermi

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 12:41 PM
To: Livengood, Chad
Cc: Murray, David (GOV); Lynch, James
Subject: Re: Embargoed media conf. call - Flint water action plan

Water tested at all public schools-traditional and charters. We're also offering it to all parochial schools.

Sara Wurfel
Press Secretary | Executive Office of Governor Rick Snyder

Sent from my iPhone

On Oct 2, 2015, at 11:47 AM, Livengood, Chad <CLivengood@detroitnews.com> wrote:

> Sara or Dave,
>
> Quick follow-up question: In reference to the plan to immediately test water coming out of the faucets of all schools in Flint Community Schools, will the water at Flint's public charter schools be tested as well? I don't have an exact count, but I'm guessing there are a half-dozen or more charter schools in Flint.
>
> -Chad
>
> ---
> Chad Livengood
> Capitol Reporter
> The Detroit News
> Lansing bureau: (517) 371-3660
> Cell: PPI
> clivengood@detroitnews.com
> Twitter.com/ChadLivengood

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Friday, October 02, 2015 9:48 AM
To: Lynch, James <JLynch@detroitnews.com>; Livengood, Chad <CLivengood@detroitnews.com>
Subject: Embargoed media conf. call - Flint water action plan
Importance: High

Hi there Jim and Chad –

Per earlier conversations, below is information for a media conference call with Gov. Snyder and Cabinet leaders – MI Dept of Environmental Quality Director Dan Wyant of the, MI Dept of Health & Human Services Director Nick Lyon of the, and Dr. Eden Wells, the state's Chief Medical Executive – to outline a comprehensive action plan to further address Flint water concerns.

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Please let us know if who from Detroit News plans to participate or if you need anything else at all in interim.

Thanks so much,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 12:58 PM
To: Kennedy, Jordan (GOV)
Subject: Flint docs

Can you please send me an email with just the latest news release and final infographics in it ASAP? Thanks!

Sara Wurfel
Press Secretary | Executive Office of Governor Rick Snyder

Sent from my iPhone

From: Wurfel, Sara (GOV)
Sent: Friday, October 02, 2015 5:36 PM
To: 'Dave Bondy'
Subject: RE: STATEMENT

We're going to continue to work openly, transparently and collaboratively with all partners at the local, state and federal levels to ensure safe, clean, accessible drinking water for Flint residents. Our state team will continue to stay focused on that task and doing everything possible and bringing all technical expertise and possible resources to bear.

From: Dave Bondy [mailto:dbondy@sbgtv.com]
Sent: Friday, October 02, 2015 5:28 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: STATEMENT

"well anyone who has followed this story from the start realizes that the state has zero credibility, they created this problem, they have taken steps to cover it up and im not hearing any signs that they are admitting their mistakes and giving people straight answers"

From: Wurfel, Sara (GOV)
Sent: Monday, October 05, 2015 12:15 PM
To: 'Macaluso, Nora'; Murray, David (GOV)
Subject: RE: News Release: Flint Water Crisis Action, Probe Urged

Nora –

Would say that we believe protecting public health is paramount and safe, clean, accessible drinking water is essential. The Governor and Administration, through both DEQ and the MI Dept of Health & Human Services, have outlined a collaborative, comprehensive action plan to help ensure just that as well as public confidence, and that we're all working together across local, state and federal levels to bring all resources and ideas to bear.

Thanks and best,
SW

From: Macaluso, Nora [mailto:nmacaluso@bna.com]
Sent: Monday, October 05, 2015 9:41 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: FW: News Release: Flint Water Crisis Action, Probe Urged

Good morning. Do you have any comment on this request for an investigation? Is the governor looking into how the DEQ missed the problem? Writing today, deadline 4 p.m. Though of course this is an ongoing story.

Thanks ..

>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Nora Macaluso
Staff Correspondent

Bloomberg BNA

Direct/Mobile PPI
nmacaluso@bna.com

From: Michigan Chapter Sierra Club [mailto:michigansierraclubmedia@gmail.com]
Sent: Friday, October 02, 2015 4:11 PM
Subject: News Release: Flint Water Crisis Action, Probe Urged

Sierra Club Calls For Urgent Action on Snyder Water Plan, Probe of Michigan Department of Environmental Quality

FOR IMMEDIATE RELEASE

Friday, October 2, 2015

Media Contact: David Holtz, david@davidholtz.org/313-300-4454

LANSING—Sierra Club today called on Gov. Rick Snyder to act decisively and urgently to implement plans to end the public health crisis in Flint and to support an independent investigation into the Michigan Department of Environmental Quality's oversight of federal drinking water laws.

"Given the clear risks to vulnerable populations and the state's public health responsibilities this is a time for strong leadership and accountability from state public health authorities and the governor," said **David Holtz**, **Sierra Club** Michigan Chair. "The governor, finally, is assuming direct responsibility for responding to a crisis that every day is damaging the health of Flint's children. His actions should be much stronger, however, and he needs to find out how we got to the point where Flint children are drinking lead and what the MDEQ's role was in those decisions and actions."

The Snyder administration today outlined a series of steps they will take to address Flint's public health crisis. They include accelerated and expanded water treatment, providing filters to some residents, expanded testing of residents and an examination of whether to temporarily switch back to the Detroit water system. Replacing Flint's lead pipes over time were also on the administration's to-do list.

Sierra Club Michigan Director **Gail Philbin** said only independent testing of Flint's water for lead will be credible because of questions raised regarding the city and MDEQ's handling of past test results.

"Parents need to know drinking water is safe for their children," said Philbin. "Immediately they need credible testing for lead and alternatives to contaminated water. The likely best way

to ensure safe drinking water in Flint is to change to a safe and reliable drinking water source and that's Detroit's water system and to eliminate lead pipes."

Investigations by the ACLU and nationally recognized drinking water expert Marc Edwards at Virginia Tech University have pointed to failures in testing and enforcement of federal drinking water standards by the Michigan Department of Environmental Quality. An MDEQ spokesman reportedly attacked Virginia Tech's results and complained about the "near-hysteria" over Flint's water supply. The Virginia Tech researcher documented what he called "mistakes and deception" involving the MDEQ's handling of Flint's drinking water problem.

"Along with ensuring Flint residents aren't drinking lead, we need for the governor to ensure that the public gets answers to what happened and why we ended up with a public health crisis in Flint," said Holtz. "That will require an independent investigation. If that's something Governor Snyder is unwilling to do we need federal authorities to determine to what extent, if any, state officials who are responsible for implementing federal drinking water standards are accountable for the public health crisis in Flint."

The Greater Flint Health Coalition, a group of health professionals in the Flint community, has concluded that Flint's drinking water is unsafe because of elevated lead blood levels. The city of Flint began using the Flint River as a water source in April 2014 following a decision made by emergency manager Darnell Earley.

Centers for Disease Control and Prevention studies show that lead in drinking water can cause serious health problems and that the greatest risk of lead exposure is to infants, young children and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children.

##

From: Wurfel, Sara (GOV)
Sent: Monday, October 05, 2015 1:37 PM
To: 'Brooks, Charlie S.'
Subject: RE: CBS News

Hi there Charlie –

More than happen to help and walk you through history and past efforts as well as comprehensive action plan that the Governor and Administration just outlined this past week. Called earlier and got VM, left a message.

Please just let me know what you may need or want, or call back at office line below. (Our IT team has my cell phone currently due to some tech issues and repairs so unfortunately that's not an option at the moment – though hopefully that will be addressed and fixed asap).

Looking forward to connecting,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Brooks, Charlie S. [mailto:CSB@cbsnews.com]
Sent: Monday, October 05, 2015 12:26 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: CBS News

Sara:

It's Charlie Brooks with the CBS Evening News. We're putting together a story about the Flint water issues and I'd like to talk to you about what the state has done and intends to do. Please call me at PPI or reply to this note and let me know the best way and time to reach you.

Thanks, and I'm on deadline so I'd appreciate a response at your earliest convenience.

From: Wurfel, Sara (GOV)
Sent: Monday, October 05, 2015 2:48 PM
To: Lasher, Geralyn (DHHS); Eisner, Jennifer (DHHS); Minicuci, Angela (DHHS)
Cc: Murray, David (GOV); Hollins, Harvey (GOV)
Subject: FW: water filter distribution

Importance: High

Guys – please share an update on this asap.

Also, have heard from CBS Evening News. They'll be in Flint today and tomorrow. Need to chat with you about that.

Please call as soon as can.

Thanks much,
SW

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, October 05, 2015 2:46 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: water filter distribution

Sara:
I'm expecting to write a story about the efforts to distribute water filters that have so far come into Flint from several sources.
Are the state-funded filters being distributed through the Genesee County Health Department and United Way or through state offices such as the Department of Human Services, or both?
Have the state-funded filters begun to arrive in Flint and does your office want to comment on the efforts to distribute the filters so far?
You may have heard that the initial distribution was expanded Saturday to include all residents because there were far more filters than low income families that qualified who turned out to request one.
Thanks for your help.
Call is it's easier

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Monday, October 05, 2015 3:37 PM
To: 'Kaffer, Nancy'; Wurfel, Brad (DEQ)
Cc: Wisely, John
Subject: RE: Follow-up questions

Sorry, Nancy. I though these were long covered with all follow up that was done afterward and on site with Robin.

Will touch base with DEQ team and be back in touch asap.

From: Kaffer, Nancy [mailto:nkaffer@freepress.com]
Sent: Monday, October 05, 2015 2:49 PM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>
Cc: Wisely, John <jwisely@freepress.com>
Subject: FW: Follow-up questions
Importance: High

Hi Sara -- sent these last week and got no response. Figured some of these are MDEQ questions, so I'm adding Brad onto the list, here.

ASAP would be great.

Thanks!

N

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Kaffer, Nancy
Sent: Friday, October 02, 2015 12:06 PM
To: 'Wurfel, Sara (GOV)' <WurfelS@michigan.gov>
Subject: Follow-up questions
Importance: High

- Reviewing my notes, I'm not sure I got a definitive answer from Wyant about corrosion control at the Flint water treatment plant.
  Was corrosion control in use? I'd like a simple yes or no, here – if no, obviously, why not – if yes, what was it, and why was – if any – what sounds like a lesser degree of corrosion control being used? I would like the names of the specific technologies/chemicals that were in use in the past, if in fact corrosion control was being used at the Flint plant, and the specific technologies that will be used going forward.

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Obviously I would like to use this information in a piece we'll have ready to go at 1:30p so ASAP would be great.

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Wurfel, Sara (GOV)
Sent: Monday, October 05, 2015 3:53 PM
To: 'Ronald Fonger'; Minicuci, Angela (DHHS); Eisner, Jennifer (DHHS)
Cc: Murray, David (GOV)
Subject: RE: water filter distribution

State teams have been working throughout the weekend with the local community and partners to get this finalized and this action step mobilized as soon as possible from state's comprehensive plan announced Friday, Ron.

Looping in Angela and Jen from the MI Dept of Health and Human Services here who can walk you through the details, but essentially filters will be available starting tomorrow morning at both the two MDHHS offices in Flint as well as the two Genesee Co. Community Action Resource Dept offices in Flint.

Great example of the collaboration underway and that's so key to addressing this issue together.

I know you'll be hearing from the soon.

Thanks and best,
SW

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, October 05, 2015 2:46 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: water filter distribution

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Thanks for your help.
Call is it's easier

Ron Fonger
MLive Media Group
Reporter

mobile [PPI]
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Monday, October 05, 2015 3:57 PM
To: Murray, David (GOV)
Subject: RE: Release on Flint

Both – clients should go to DHHS office, all others should go to local Community Action Agency location – though either can go to other locations and walk out door with filter by same form/policy to ensure "no wrong door" and make as easy as possible. But they are trying to direct folks accordingly. Outlined in 2nd graph – not clear enough?

From: Murray, David (GOV)
Sent: Monday, October 05, 2015 3:52 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Re: Release on Flint

I'm confused after reading the release. Does this deal just with filters for the clients, or for everyone?

Sent from my iPad

On Oct 5, 2015, at 3:42 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

> Talked at length with Geralyn about this just now. Think is a good thing, and shows immediate follow up from action steps announced Friday. Added bonus is that it should be pretty easy for Flint clients and residents and have a "no wrong door" approach too just in case. Please see attached and below.
>
> This is slated for distribution at 4 p.m. Need to hear if any concerns from anyone ASAP.
>
> Otherwise, it's a go.
>
> Thanks much,
> SW
>
> ---
>
> **From:** Lasher, Geralyn (DHHS)
> **Sent:** Monday, October 05, 2015 3:19 PM
> **To:** Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Priest, Chris (GOV) <PriestC1@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
> **Cc:** Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>; Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>; Hertel, Elizabeth (DHHS) <HertelE@michigan.gov>
> **Subject:** Release on Flint
> **Importance:** High
>
> Attached is the draft release we would like to issue ASAP regarding the new plan for water filter distribution in the city of Flint.

At a meeting with multiple community partners today, our local MDHHS office realized they could do distribution from the 2 Flint offices as long as the local community action agency could assist them in storing the larger quantities of filters.

Locally, the groups will be issuing a press release from the local health department discussing distribution, but we feel it is important to also send this from MDHHS.

We are happy to discuss this with Ron Fonger if you want him to be the first press call we make once we issue it.

<Flint Filters Press Release 10515.pdf>

From: Wurfel, Sara (GOV)
Sent: Monday, October 05, 2015 5:31 PM
To: Charlie Brooks - CBS News
Cc: Minicuci, Angela (DHHS); Wheaton, Bob (DHHS)
Subject: FW: FOR IMMEDIATE RELEASE: Water filters available for MDHHS clients, all Flint residents beginning Tuesday

Importance: High

Greetings, Charlie –

Good talking with you earlier today. We're happy to help connect you with state experts and resources as possible.

You had asked about filters. Two components of the state's action plan announced this past Friday will be mobilized tomorrow with free filters available for all DHHS clients in the area as well as any other Flint resident. (See details below).

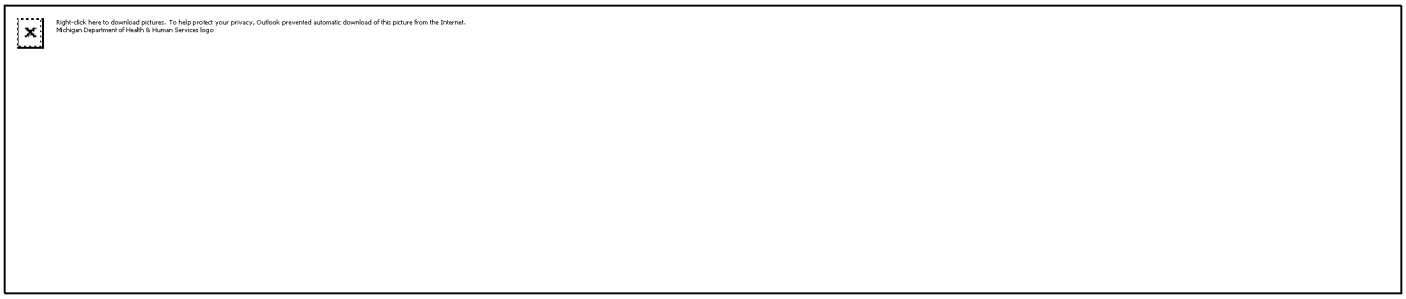
I'm looping in the two folks here – both at the MI Dept of Health & Human Services – who can work with you and your team on securing an interview with one of the DHHS leads on the ground as well as securing footage as possible. (Just have to work through some privacy and confidentiality rules re: clients).

Angela and Bob – per our conversation, Charlie is a producer for CBS Evening News with a team in Flint today and tomorrow. They were looking for opportunities like this. Please work with him to make arrangements and see what's feasible and workable.

Thanks all,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Michigan Department of Health and Human Services [mailto:MDHHS@govsubscriptions.michigan.gov]
Sent: Monday, October 05, 2015 4:09 PM
To: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>
Subject: FOR IMMEDIATE RELEASE: Water filters available for MDHHS clients, all Flint residents beginning Tuesday



Press Release

FOR IMMEDIATE RELEASE: October 5, 2015

CONTACT: Jennifer Eisner, (517) 241-2112

Water filters available for MDHHS clients, all Flint residents beginning Tuesday

LANSING, Mich. – Free water filters will be available to current Michigan Department of Health and Human Services clients and Flint residents at four locations beginning Tuesday, October 6, at 9 a.m. through a partnership between the MDHHS and the Genesee County Community Action Resource Department. Free National Sanitation Foundation certified water filters are being provided to Flint residents as part of the administration's comprehensive approach to addressing water concerns in the area.

Current MDHHS clients are encouraged to visit either the 125 E. Union St. or 4809 Clio Road MDHHS office location to obtain a free, certified home water filter. Residents who are not currently enrolled in MDHHS assistance programs should visit the Genesee County Community Action Resource Department offices located at 2727 Lippincott and 601 North Saginaw in Flint. Staff will be onsite at all four locations from 9 a.m. to 4 p.m., Monday through Friday, to distribute filters and assist residents who have questions about proper installation.

"Ensuring that families in the Flint area have access to resources that will help reduce the potential for lead exposure is our top priority," said Nick Lyon, director of the MDHHS. "I want to thank our partners who have mobilized to make water filters available – a point that highlights the importance of continued collaboration at the local, state and federal level as we move forward."

MDHHS clients in the city of Flint who are active Family Independence Program (FIP), Food Assistance Program (FAP), Child Development and Care (CDC), State Disability Assistance (SDA), or Social Security Insurance (SSI) recipients should bring valid identification and a copy of their water bill to their local MDHHS office to receive their filter free of charge. Flint residents who are not active MDHHS clients should bring identification and their water bill to the GCCARD location.

Although blood lead levels throughout the city of Flint have remained steady, last week, MDHHS data was found to be consistent with a recent Hurley Children's Hospital study indicating increased blood lead levels in children residing in two Flint ZIP codes after a 2014 change in water source. While lead paint remains the number one cause of lead poisoning in Michigan, the recent data

prompted MDHHS to take action to reduce potential lead exposures through water sources.

MDHHS is urging parents in Flint and throughout the state to do their part in preventing elevated blood lead levels in children. For more information about steps you can take now, visit www.michigan.gov/lead, or contact your local health department. For updates on Flint water and available resources, visit www.michigang.gov/flintwater.

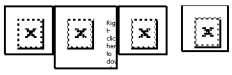
###

- Flint Filters Press Release 10515.pdf

Become a foster parent through Michigan Department of Health & Human Services foster care program.

Questions? Contact Us

STAY CONNECTED:



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This email was sent to lasherg@michigan.gov using GovDelivery, on behalf of: Michigan Dept of Health & Human Services · 235 S. Grand Ave W. · Lansing, MI 48909 · 1-855-275-6424

From: Wurfel, Sara (GOV)
Sent: Monday, October 05, 2015 5:42 PM
To: 'Kyle Melinn'
Subject: RE: What Ananich said

Sigh. Here's what I say in response to that …

The Governor and our Administration are deeply committed to building solid and strong communities and a Michigan that works for everyone – regardless of an area's makeup or socioeconomic status. That certainly includes Flint.

Would hope some of our past work and collaboration specifically in the city of Flint can help demonstrate that clearly, from the Secure Cities public safety initiative and targeted resources to help the city tackle that issue as well as infrastructure needs to continued, ongoing dialogue on so many issues with community, faith and business leaders and residents. We are committed to partnering with the city of Flint and collaborating across local, state and federal levels to bring all resources and ideas to bear.

From: Kyle Melinn [mailto:melinnky@gmail.com]
Sent: Monday, October 05, 2015 4:46 PM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>
Subject: What Ananich said

Sara -

I've attached what I've written on Ananich's comments on the podcast. Let me know how you want to respond. Appreciate it!

Kyle

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 06, 2015 9:14 AM
To: 'Ronald Fonger'
Subject: RE: governors team

Sorry, Ron, I can't see any of the text below after "WJRT is reporting" … other than "water crisis." What's the Q?

Though you know the state team will start today its distribution of water filters at both DHHS offices for state assistance clients and through GCARD offices for any other Flint resident, yes?

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Tuesday, October 06, 2015 9:08 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: governors team

Sara:
Can you fill me in on what's happening in Flint today?
WJRT is reporting **"Members of the state's team handling the** water crisis" **will be in Flint on Tuesday to work with local leaders on how to move forward."**
Thanks for your help

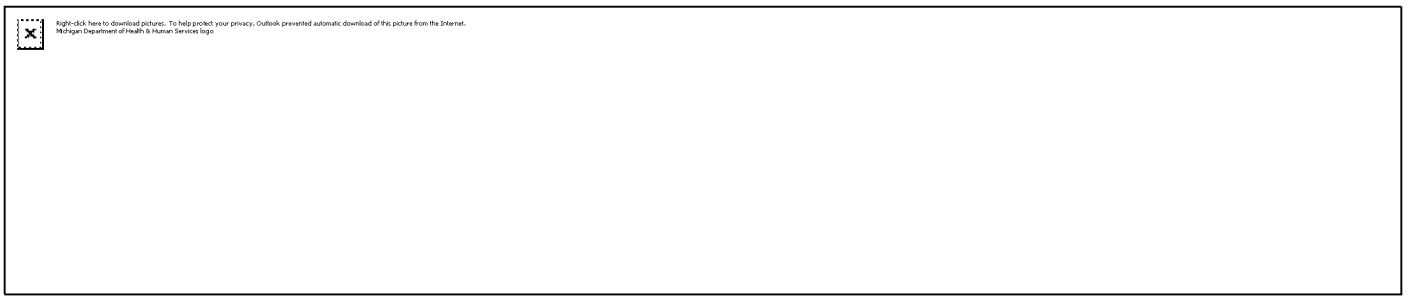
Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 06, 2015 10:51 AM
To: Stoken, Laura (GOV)
Subject: FW: FOR IMMEDIATE RELEASE: Water filters available for MDHHS clients, all Flint residents beginning Tuesday

Importance: High

From: Michigan Department of Health and Human Services [mailto:MDHHS@govsubscriptions.michigan.gov]
Sent: Monday, October 05, 2015 4:09 PM
To: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>
Subject: FOR IMMEDIATE RELEASE: Water filters available for MDHHS clients, all Flint residents beginning Tuesday



Press Release

FOR IMMEDIATE RELEASE: October 5, 2015

CONTACT: Jennifer Eisner, (517) 241-2112

Water filters available for MDHHS clients, all Flint residents beginning Tuesday

LANSING, Mich. – Free water filters will be available to current Michigan Department of Health and Human Services clients and Flint residents at four locations beginning Tuesday, October 6, at 9 a.m. through a partnership between the MDHHS and the Genesee County Community Action Resource Department. Free National Sanitation Foundation certified water filters are being provided to Flint residents as part of the administration's comprehensive approach to addressing water concerns in the area.

Current MDHHS clients are encouraged to visit either the 125 E. Union St. or 4809 Clio Road MDHHS office location to obtain a free, certified home water filter. Residents who are not currently enrolled in MDHHS assistance programs should visit the Genesee County Community Action Resource Department offices located at 2727 Lippincott and 601 North Saginaw in Flint. Staff will be onsite at all four locations from 9 a.m. to 4 p.m., Monday through Friday, to distribute filters and

assist residents who have questions about proper installation.

“Ensuring that families in the Flint area have access to resources that will help reduce the potential for lead exposure is our top priority,” said Nick Lyon, director of the MDHHS. “I want to thank our partners who have mobilized to make water filters available – a point that highlights the importance of continued collaboration at the local, state and federal level as we move forward.”

MDHHS clients in the city of Flint who are active Family Independence Program (FIP), Food Assistance Program (FAP), Child Development and Care (CDC), State Disability Assistance (SDA), or Social Security Insurance (SSI) recipients should bring valid identification and a copy of their water bill to their local MDHHS office to receive their filter free of charge. Flint residents who are not active MDHHS clients should bring identification and their water bill to the GCCARD location.

Although blood lead levels throughout the city of Flint have remained steady, last week, MDHHS data was found to be consistent with a recent Hurley Children’s Hospital study indicating increased blood lead levels in children residing in two Flint ZIP codes after a 2014 change in water source. While lead paint remains the number one cause of lead poisoning in Michigan, the recent data prompted MDHHS to take action to reduce potential lead exposures through water sources.

MDHHS is urging parents in Flint and throughout the state to do their part in preventing elevated blood lead levels in children. For more information about steps you can take now, visit www.michigan.gov/lead, or contact your local health department. For updates on Flint water and available resources, visit www.michigang.gov/flintwater.

###

- Flint Filters Press Release 10515.pdf

Right-click here to download pictures. To help protect your privacy, Outlook prevented automatic download of this picture from the Internet.
DHHS Footer

Become a foster parent through Michigan Department of Health & Human Services foster care program.

Questions? Contact Us

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This email was sent to lashergm@michigan.gov using GovDelivery, on behalf of: Michigan Dept of Health & Human Services · 235 S. Grand Ave W. · Lansing, MI 48909 · 1-855-275-6424

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 06, 2015 11:11 AM
To: Emmitt, Beth (GOV); Murray, David (GOV); Agen, Jarrod (GOV)
Subject: RE: Flint

Agreed overall, though ideally it would have been a week or two ago before the fever pitch level it is now. But we need to do something more to change the narrative and demontrate state's leadership and determination to help tackle the issue.

Key challenge is what specifically tied to kind of venue/announcement/info given the dynamics and timing (ie. school testing results) and status of DWSD reconnect conversation. Or a way to convey some other tangible item/assistance.

These filter distribution sites announced yesterday and that Beth highlighted below could be good one - it's a state led effort with collaboration - just would have to be done carefully.

We also have the state lab where testing is done. Though that poses certain opportunities and risks too, including it's not in Flint (is in Lansing).

-----Original Message-----
From: Emmitt, Beth (GOV)
Sent: Tuesday, October 06, 2015 10:55 AM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>
Cc: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: Flint

http://www.mlive.com/news/flint/index.ssf/2015/10/whats_next_for_water_filter_di.html

This Friday afternoon he could visit one of the sites, talk to the CEO of United Way.

-----Original Message-----
From: Murray, David (GOV)
Sent: Tuesday, October 06, 2015 10:53 AM
To: Agen, Jarrod (GOV) <AgenJ@michigan.gov>
Cc: Emmitt, Beth (GOV) <emmittb@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Re: Flint

I think this is a good idea. One think we keep hearing is that the governor is not involved or is detached. The Mike Thompson cartoon in the Freep last week is getting a lot of mileage on social media.

This would be good to show he's there and cares. And if we don't announce until he's there we can avoid the protests -- and still get the optics.

Sent from my iPhone

> On Oct 6, 2015, at 10:49 AM, Agen, Jarrod (GOV) <AgenJ@michigan.gov> wrote:

>
> Don't forward or spread this around, but give me your take.
> I think we may need to get G into Flint this week.
> Unpublicized, but public. Filter distribution, testing visit, discussion with Superintendent, etc...
> (And probably again next week.)
>
> We should at least present the option of what a potential visit would look like.
>
> Can you think about it and let me know how we'd do it.
> I know it would require blowing up a day or part of a day.
>
>

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 06, 2015 11:35 AM
To: Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS); Eisner, Jennifer (DHHS)
Subject: FW: PHONE MESSAGE: Stephanie Parkinson - NBC 25 Flint

Importance: High

What's the story and full details on this?

From: Ruestman, Alexa (GOV)
Sent: Tuesday, October 06, 2015 11:33 AM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>
Cc: Agen, Jarrod (GOV) <AgenJ@michigan.gov>
Subject: PHONE MESSAGE: Stephanie Parkinson - NBC 25 Flint

Name: Stephanie Parkinson
Outlet: NBC 25 Flint
Email: sparkinson@sbgtv.com
Phone: 810-247-1276
Re: Flint Water, filter giveaway
"We have been told that the filters given out in Flint are good for 100 gallons, what are people supposed to do once they surpass that limit?"
Deadline: this afternoon

Alexa Ruestman
Communications Intern
Executive Office of the Governor
RuestmanA@michigan.gov

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 06, 2015 11:42 AM
To: Eisner, Jennifer (DHHS)
Cc: Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS)
Subject: RE: Flint Water Filters

Very helpful. Thx much.

What is anticipated cost of filter cartridge replacement?

Also, we're needing to send the Governor daily updates for his briefing on this issue. Would be great to have recap of today's first distribution by 4 p.m. -- how went, how many given out/clients served, overall reax/reception, etc. And anything else of note that's important or key.

From: Eisner, Jennifer (DHHS)
Sent: Tuesday, October 06, 2015 11:37 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>
Subject: Fwd: Flint Water Filters

FYI

Sent from my iPhone

Begin forwarded message:

> **From:** "Thompson, Sheryl D. (DHHS)" <ThompsonS2@michigan.gov>
> **Date:** October 6, 2015 at 11:33:56 AM EDT
> **To:** "Eisner, Jennifer (DHHS)" <EisnerJ@michigan.gov>
> **Cc:** "Lasher, Geralyn (DHHS)" <lasherg@michigan.gov>, "Hertel, Elizabeth (DHHS)" <HertelE@michigan.gov>, "Minicuci, Angela (DHHS)" <MinicuciA@michigan.gov>
> **Subject: Re: Flint Water Filters**
>
> Yes we are doing filter replacements. This is why we are verifying addresses and contact numbers in a database in addition to the types of water filters residents received.
>
> I'm on my way back to Lippincott right now.
>
> Sheryl Thompson
> Deputy Director of Field Ops
> 517-241-5954
>
> On Oct 6, 2015, at 11:31 AM, Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov> wrote:

Do we have an answer on this?

Sent from my iPhone

Begin forwarded message:

> **From:** "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
> **Date:** October 6, 2015 at 11:21:02 AM EDT
> **To:** "Eisner, Jennifer (DHHS)" <EisnerJ@michigan.gov>
> **Subject: Fwd: Flint Water Filters**
>
> You taking these calls?
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> > **From:** Stephanie Parkinson <sparkinson@sbgtv.com>
> > **Date:** October 6, 2015 at 11:04:15 AM EDT
> > **To:** "WurfelB@michigan.gov" <WurfelB@michigan.gov>
> > **Subject: Flint Water Filters**
> >
> > Brad,
> >
> > We are being told the free water filters for people living in Flint must be replaced after 100 gallons. What happens after that, will there be replacement filters handed out when that need arises?
> >
> > Thanks.
> >
> > **Stephanie Parkinson**
> > Anchor/Reporter
> > NBC25
> > Flint, Michigan
> >
> > **Newsroom:** 810-687-9600
> > **Twitter:** StephaniePNews

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 06, 2015 11:45 AM
To: 'sparkinson@sbgtv.com'
Subject: FW: PHONE MESSAGE: Stephanie Parkinson - NBC 25 Flint

Importance: High

Greetings, Stephanie –

My understanding is that plan is to also offer and provide filter replacements when needed. Team is tracking type of filter and contact information to help ensure.

Having Jennifer Eisner from the MI Dept of Health & Human Services get in touch with you asap to confirm and walk through details. Just in case, she's at 517-230-9804.

From: Ruestman, Alexa (GOV)
Sent: Tuesday, October 06, 2015 11:33 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Agen, Jarrod (GOV) <AgenJ@michigan.gov>
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Communications Intern
Executive Office of the Governor
RuestmanA@michigan.gov

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To: Eisner, Jennifer (DHHS)
Cc: Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS)
Subject: RE: Flint Water Filters

Also, what is status of interview time and arrangements with CBS Evening News? Please keep us posted on those details too.

Thx!

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 06, 2015 11:42 AM
To: Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>
Cc: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>
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Very helpful. Thx much.

What is anticipated cost of filter cartridge replacement?

Also, we're needing to send the Governor daily updates for his briefing on this issue. Would be great to have recap of today's first distribution by 4 p.m. -- how went, how many given out/clients served, overall reax/reception, etc. And anything else of note that's important or key.

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I'm on my way back to Lippincott right now.

Sheryl Thompson
Deputy Director of Field Ops
517-241-5954

On Oct 6, 2015, at 11:31 AM, Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov> wrote:

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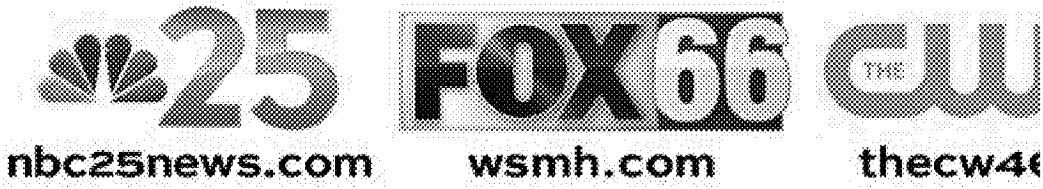
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FOX66
nbc25news.com
wsmh.com
thecw4

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 06, 2015 12:14 PM
To: Eisner, Jennifer (DHHS)
Cc: Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS)
Subject: RE: Flint Water Filters

Good. Also going to visit one of the offices distributing filters and/or talking with Sheryl Thompson?

From: Eisner, Jennifer (DHHS)
Sent: Tuesday, October 06, 2015 12:10 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>
Subject: Re: Flint Water Filters

Dan is being interviewed now. They've talked to a few residents

Sent from my iPhone

On Oct 6, 2015, at 11:47 AM, "Wurfel, Sara (GOV)" <Wurfels@michigan.gov> wrote:

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> > > > Brad,

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Thanks.

Stephanie Parkinson
Anchor/Reporter
NBC25
Flint, Michigan

Newsroom: 810-687-9600
Twitter: StephaniePNews

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 06, 2015 2:50 PM
To: Wurfel, Brad (DEQ)
Subject: Re: Follow-up questions

Please make sure you have Dan available too. Key.

Sent from my iPhone

On Oct 6, 2015, at 2:47 PM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:

> Nancy,
> Trying to reach you. I've got our division chief for a bit. Is this a workable time?
>
> Sent from my iPhone
>
> On Oct 6, 2015, at 1:43 PM, Kaffer, Nancy <nkaffer@freepress.com> wrote:
>
> > Hey guys – still looking for info
> >
> > Nancy Kaffer
> > Columnist
> > Detroit Free Press
> > www.freep.com/abettermichigan
> > 313-222-6585
> > @nancykaffer, @abettermi
> >
> > **From:** Kaffer, Nancy
> > **Sent:** Monday, October 05, 2015 2:49 PM
> > **To:** 'Wurfel, Sara (GOV)' <WurfelS@michigan.gov>; 'WurfelB@michigan.gov' <WurfelB@michigan.gov>
> > **Cc:** Wisely, John <jwisely@freepress.com>
> > **Subject:** FW: Follow-up questions
> > **Importance:** High
> >
> > Hi Sara – sent these last week and got no response. Figured some of these are MDEQ questions, so I'm adding Brad onto the list, here.
> >
> > ASAP would be great.
> >
> > Thanks!
> >
> > N
> >
> > Nancy Kaffer
> > Columnist
> > Detroit Free Press
> > www.freep.com/abettermichigan

313-222-6585
@nancykaffer, @abettermi

From: Kaffer, Nancy
Sent: Friday, October 02, 2015 12:06 PM
To: 'Wurfel, Sara (GOV)' <Wurfels@michigan.gov>
Subject: Follow-up questions
Importance: High

- Reviewing my notes, I'm not sure I got a definitive answer from Wyant about corrosion control at the Flint water treatment plant.
  Was corrosion control in use? I'd like a simple yes or no, here – if no, obviously, why not – if yes, what was it, and why was – if any – what sounds like a lesser degree of corrosion control being used? I would like the names of the specific technologies/chemicals that were in use in the past, if in fact corrosion control was being used at the Flint plant, and the specific technologies that will be used going forward.
- Was the MDEQ unaware that there were aging lead service lines in Flint, and that those would increase the lead risk? Were the Flint water treatment folks? Why was this not taken into account in developing the water treatment plan?
- Wyant said that "two consecutive back to back tests" showed there was a problem; when were those tests performed and when were the results available?

Obviously I would like to use this information in a piece we'll have ready to go at 1:30p so ASAP would be great.

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 06, 2015 5:17 PM
To: 'Agen, Jarrod (GOV)'; Murray, David (GOV)
Subject: RE: Flint Drinking Water Action Plan Update - FOIA EXEMPT AND ATTORNEY-CLIENT PRIVILEGED

Great -- thx.

Do we have tomorrow's 8 a.m. call or meeting details yet?

From: Agen, Jarrod (GOV)
Sent: Tuesday, October 06, 2015 5:09 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Fwd: Flint Drinking Water Action Plan Update - FOIA EXEMPT AND ATTORNEY-CLIENT PRIVILEGED

This may be helpful in crafting materials.

Begin forwarded message:

> **From:** "Wyant, Dan (DEQ)" <WyantD@michigan.gov>
> **Date:** October 6, 2015 at 5:05:10 PM EDT
> **To:** "Scott, Allison (GOV)" <scotta12@michigan.gov>, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>, "Agen, Jarrod (GOV)" <AgenJ@michigan.gov>, "Dickinson, Sarah (GOV)" <DickinsonS@michigan.gov>
> **Subject: Flint Drinking Water Action Plan Update - FOIA EXEMPT AND ATTORNEY-CLIENT PRIVILEGED**
>
> The Flint Drinking Water Action Plan was announced on October 2, 2015. It included the following:
>
> - Testing in Flint public schools immediately
> - Offered free water testing to Flint residents
> - Provided free water filters to residents with concerns or who are included in state assistance programs
> - Expanding health exposure testing of individual homes
> - Accelerating corrosion controls in the Flint drinking water system
> - Accelerating water system improvements to address replacing lead service lines
> - Expediting the completion of the Karegnondi Water Authority pipeline
> - Expanding a Safe Drinking Water Technical Advisory Committee
> - Named Dr. Eden Wells as the Flint drinking water public health advisor
> - Boosted a comprehensive lead education program
>
> Testing in Flint Public Schools Immediately

Samples were taken on October 2 and were received at DEQ laboratory over the weekend. Test results to date indicate 37 samples tested, 4 of which exceeded a federal action level, and 1 of those 4 was a significant outlier. We will be compiling detailed information about which schools and area codes the test results came from and will be providing that information in our next update.

We have met with DHHS, and we are working on developing response protocols, a communications plan, and guidance for schools when this data is reported.

Offered Free Water Testing to Flint Residents

We have received 4 sets of samples from Flint that represent individual residents. We will be compiling the total number and the results of those samples and reporting in a future report.

Provided Free Water Filters to Residents with Concerns or Who are Included in State Assistance Programs

DHHS held organizational meetings in Flint on October 5, and filter distribution by DHHS started on October 6. Nick Lyon in DHHS is taking the lead in filter distribution.

Expanding Health Exposure Testing of Individual Homes

Dr. Wells and Dan Wyant have been in conversations about a protocol for exposure testing. Dr. Wells will take the lead on developing the protocol.

Accelerating Corrosion Controls in the Flint Drinking Water System

A conference call was held with U.S. EPA Regional Administrator Susan Hedman and national corrosion control experts. We asked two questions:

1. **Which is a safer water source – DWSD or Flint River?**
2. **If you don't have an opinion on the safer source, what criteria should we use for an evaluation?**

EPA staff would not commit to a preference, but their evaluation of the criteria clearly lead to the conclusion that DWSD was a safer water source. EPA committed to submitting technical assistance to the Safe Drinking Water Technical Advisory Committee (Advisory Committee) meeting, which will be held on October 7 at 2:00 p.m. in Flint City Hall.

DEQ met with the Flint Mayor, the city manager, and their water staff. Flint agreed to expediting corrosion controls. We discussed the agenda for the Advisory Committee meeting. The Advisory Committee will be asked to evaluate two respective water sources at their Wednesday meeting.

We expect the Advisory Committee to recommend the water source that would address not only lead safety but also other water safety issues.

Accelerating Water System Improvements to Address Replacing Lead Service Lines

Conversations with Congressman Kildee and EPA have clarified the state would be allowed to use Drinking Water Revolving Loan funds to replace private drinking water service lines. Senator Ananich has been approached to introduce language clarifying the state's authority.

Expediting the Completion of the Karegnondi Water Authority Pipeline

Dan Wyant has talked to Genesee County Drain Commissioner Jeff Wright. Mr. Wright has provided a list of issues that would help expedite the completion of the Karegnondi Water Authority pipeline. They include truck weight and frost law exemptions, talent identification, and expediting permits.

Expanding a Safe Drinking Water Technical Advisory Committee

EPA has appointed their national technical expert to the Advisory Committee, and we have appointed Alfred Franzblau, M.D., Professor of Environmental Health Services, University of Michigan, to the Advisory Committee.

Named Dr. Eden Wells as the Flint Drinking Water Public Health Advisor

Boosted a Comprehensive Lead Education Program

Other Updates

- Dan Wyant was interviewed on October 6 by CBS Evening News during filter distribution in Flint. Questions asked were:
  - Was it a mistake to go to Flint River water?
    Answer: We draw water from the surface waters; we treat it to safe drinking water standards. At issue is lead exposure. Lead exposure must be addressed. Actions are being taken to address the issue.
  - Did you put kids at risk?
    Answer: Lead exposure is a serious issue, and steps need to be taken to limit lead exposure.
  - Why did it take so long?
    Answer: DEQ has been there from the beginning addressing the issue of Flint water. Recent tests justify and require the actions taken. Action steps address short-term, intermediate, and long-term lead issues to ensure public safety and confidence of the drinking water.

- Dan Wyant also spoke to the Governor about Flint funding needs. A meeting is scheduled for October 7 at 8:00 a.m. to further discuss proposals.

- What we are telling Flint citizens is:
  - Have your water tested
  - Use only cold water for drinking, cooking, and preparing formula
  - Run water before use if it has not been used for several hours
  - Obtain a water filter approved for lead removal
  - Purchase lead-free plumbing components
  - Remove entire lead service lines

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 10:50 AM
To: Lasher, Geralyn (DHHS)
Subject: RE: I will be in Flint tomorrow

Got it, thanks much.

We'll just need to work through and coordinate on roles and remarks of Nick and Dr. Wells.

-----Original Message-----
From: Lasher, Geralyn (DHHS)
Sent: Wednesday, October 07, 2015 10:22 AM
To: Wyant, Dan (DEQ) <WyantD@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: FW: I will be in Flint tomorrow

FYI. Nick will be in Flint with you tomorrow.

-----Original Message-----
From: Lyon, Nick (DHHS)
Sent: Wednesday, October 07, 2015 9:31 AM
To: Becker, Timothy (DHHS) <beckert1@michigan.gov>; Grijalva, Nancy (DHHS) <GrijalvaN@michigan.gov>; Hertel, Elizabeth (DHHS) <HertelE@michigan.gov>; Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>; Eden Wells <ewells@umich.edu>; Moran, Susan (DHHS) <MoranS@michigan.gov>
Subject: I will be in Flint tomorrow

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 1:26 PM
To: Monica Davey - NY Times
Cc: monicaruthdavey@gmail.com
Subject: FW: DWSD Termination Letter to Flint
Attachments: DWSD Termination Ltr.pdf

Importance: High

City of Detroit
Water and Sewerage Department
Office of the Director

735 Randolph Street
Detroit, Michigan 48226
www.detroitmi.gov

April 17, 2013

RECEIVED
CITY OF FLINT
CITY CLERK'S OFFICE
2013 APR 18 AM 11:23

Via Certified Mail and Electronic Delivery

Ms. Inez M. Brown
City Clerk
City of Flint
2nd Floor, City Hall
1101 S. Saginaw Street
Flint, Michigan 48502

Dear Ms. Brown:

Regarding: Termination of Contract for the Provision of Water Services by the City of Detroit, Water and Sewerage Department

On December 20, 1965, the City of Detroit, through its Board of Water Commissioners, (DWSD) and the City of Flint, Michigan (Flint) entered into a contract for the provision of DWSD treated water to Flint and the distribution by flint of that water to other Genesee County communities. Section 18 of that Agreement[1] provides:

18. The Board [DWSD] shall supply and sell water to the City [Flint] from the water system of the City of Detroit, and the City shall receive and purchase such water in accordance with the terms of this Agreement for an indefinite period of time but at least for a period of thirty-five (35) years from the date hereof. This Agreement may be terminated by either party after expiration of said 35-year period, upon one year's written notice served upon the other party by delivering the same to the Secretary of the Board or to the Clerk of the City as the case may be, or at any time upon mutual consent of both parties.

Please take notice that pursuant to this section, 18, of the above-referenced Agreement, DWSD is terminating this Agreement one year from today's date (April 17, 2014).

Sincerely yours,

Sue F. McCormick
Director

[1] Although the Agreement between DWSD has been subsequently amended, Section 18 remains unchanged and in full effect.

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 1:54 PM
To: 'Wurfel, Brad (DEQ)'
Cc: Shekter Smith, Liane (DEQ)
Subject: RE: two questions from Gov

Didn't you say something about past statute presumed that they had already switched from lead service lines?

What about a new school opening or changing hands? At beginning of each school year?

From: Wurfel, Brad (DEQ)
Sent: Wednesday, October 07, 2015 1:45 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Shekter Smith, Liane (DEQ) <SHEKTERL@michigan.gov>
Subject: RE: two questions from Gov

Liane, please correct me if I've got this wrong …

In short, I believe the answer I'm going to be able to confirm yet today is that the schools have never been tested.

There is no requirement in statute for the testing of schools for lead or copper if they're using the municipal service as their supply (statute presumes they are covered same as homes by the surveillance monitoring done on households).

If the school is on its own well, it undergoes testing as a sole source.
b

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 1:27 PM
To: Pallone, Maggie (DEQ); Wurfel, Brad (DEQ)
Subject: FW: two questions from Gov

#1 is the Q I asked about yesterday. The Governor is still very much expecting -- and we need -- an answer to this Q. (And what is requirement or statute, or standard, or isn't there one?)

Thanks!

From: Agen, Jarrod (GOV)
Sent: Wednesday, October 07, 2015 1:19 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: two questions from Gov

1) What is our Comms response to the question: What happens in rest of the state regarding water testing in schools?

2) Gov is meeting with SML and Speaker this afternoon, but when do we inform Ananich and Greimel? On this one, I assume we are inviting Ananich tomorrow morning and we can just tell Greimel at that same time, right? What time are we doing that?

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 3:32 PM
To: Biehl, Laura (GOV); Kennedy, Jordan (GOV); Agen, Jarrod (GOV); Murray, David (GOV); Heaton, Anna (GOV); Brown, Jessica (GOV)
Subject: RE: MA for review

Sigh of relief and good news on stream.

Also, Mott comms apparently said their building team recommended the name that appears on the outside of the building to help avoid confusion, which has a slightly revised address too.

Commerce Center/Mott Foundation Building - Conference Center, Ground Floor
519 S. Saginaw Street

We should add note about credentialed media as well.

From: Biehl, Laura (GOV)
Sent: Wednesday, October 07, 2015 3:18 PM
To: Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Heaton, Anna (GOV) <HeatonA@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>
Subject: RE: MA for review

Erik said we should be good on livestream.

From: Kennedy, Jordan (GOV)
Sent: Wednesday, October 07, 2015 2:51 PM
To: Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Heaton, Anna (GOV) <HeatonA@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>
Subject: MA for review
Importance: High

Team—

Below is the media advisory for tomorrow. The Livestream portion is highlighted because we are still checking to make sure the venue has livestreaming capabilities.

Wednesday, Oct. 7, 2015
Contact: Sara Wurfel or Dave Murray
Office: 517-335-6397

Editor's note: Media must present valid press credentials on site.

Thursday, Oct. 8 at 10 a.m.
Gov. Rick Snyder will make an announcement regarding the Flint water system. He will be joined by Flint Mayor Dayne Walling, Director of Environmental Quality, Dan Wyant, Director of the Department of Health and Human Services, Nick Lyon, Dr. Eden Wells, Chief Medical Executive at DHHS, and Ridgway White of the Charles Stewart Mott Foundation.

A livestream option is also available at [illegible]. If you wish to embed the event please visit [illegible] for more information.

Location:
Mott Foundation Building – Ground Floor
503 S. Saginaw St.
Flint, MI

Thursday, Oct. 8 at 7 p.m.
Snyder will offer remarks at the Celebration of Life Gala supporting Magen David Adom (Israel's national 911 and emergency services).

Location:
Adat Shalom Synagogue
29901 Middlebelt Rd.
Farmington Hills, MI

#####

Jordan Kennedy
Communications Representative
Executive Office of Governor Rick Snyder
Phone: 517.335.6397

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 3:40 PM
To: Kennedy, Jordan (GOV)
Subject: RE: MA for review

You need to add in the credentialing information yet. thx

From: Kennedy, Jordan (GOV)
Sent: Wednesday, October 07, 2015 3:40 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Heaton, Anna (GOV) <HeatonA@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>
Cc: Paciorek, Josh (GOV) <Paciorekj@michigan.gov>
Subject: RE: MA for review

I updated the address below.

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29901 Middlebelt Rd.
Farmington Hills, MI

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Jordan Kennedy
Communications Representative
Executive Office of Governor Rick Snyder
Phone: 517.335.6397

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 3:42 PM
To: Kennedy, Jordan (GOV)
Subject: RE: MA for review

And street address still needs to be amended too. See highlighted below. Just in case: 519 S. Saginaw St.

From: Wurfel, Sara (GOV)
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[redacted]

We should add note about credentialed media as well.

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Sent: Wednesday, October 07, 2015 3:18 PM
To: Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Heaton, Anna (GOV) <HeatonA@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>
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Jordan Kennedy
Communications Representative
Executive Office of Governor Rick Snyder
Phone: 517.335.6397

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 4:19 PM
To: 'Kathryn A. Thomas'
Subject: RE: Contact info
Attachments: FlintWater_PodiumSign.pdf

Got it – many thanks, Kathryn.

Also, here is what had mentioned about podium sign. Basic, to the point/message and no one entity as primary. Work and comfortable for that end?

We should indeed make sure there's security connections. Who is your point for that and contact info? I'm trying to verify who's going to be lead on our team's EP unit and will also share as soon as receive.

From: Kathryn A. Thomas [mailto:kthomas@mott.org]
Sent: Wednesday, October 07, 2015 1:27 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: Contact info

Brief correction for the address on the advisory. Our building manager advises that we should use the name that appears on the outside of the building so as to avoid confusion. She recommends the following:

Commerce Center Building
519 S. Saginaw Street
Conference Center, Ground Floor

I also wanted to ask if we should connect our building security staff with your security staff. Please let me know.

Thanks!

Kathryn

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Wednesday, October 7, 2015 12:41 PM
To: Kathryn A. Thomas <kthomas@mott.org>
Cc: Biehl, Laura (GOV) <BiehlL@michigan.gov>; Heaton, Anna (GOV) <HeatonA@michigan.gov>; Janiszewski, Erik (GOV) <JaniszewskiE@michigan.gov>; Utley, Corey (GOV) <UtleyC@michigan.gov>
Subject: RE: Contact info

Many thanks, Kathryn.

So appreciate your and the Mott Foundation's leadership and assist on this and helping make the Dining Room conference center space in the Mott Foundation Building available.

Here too is all my contact information, along with our team who will be working on this as well. Have cc'd them here as well.

We'll wait to hear from you on some of the outstanding technical and logistical Qs, and also be back in touch as we have drafts of materials hopefully late this afternoon.

Laura Biehl
PPI mobile
biehll@michigan.gov

Anna Heaton
PPI mobile
heatona@michigan.gov

Corey Utley (Advance Coordinator)
PPI mobile
utleyc@michigan.gov

Depending on any particulars, we also may need our livestream guru and videographer, Erik Janiszewski, to connect with your IS services team as well. His mobile is PPI and JaniszewskiE@michigan.gov.

Thanks again and warm regards,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

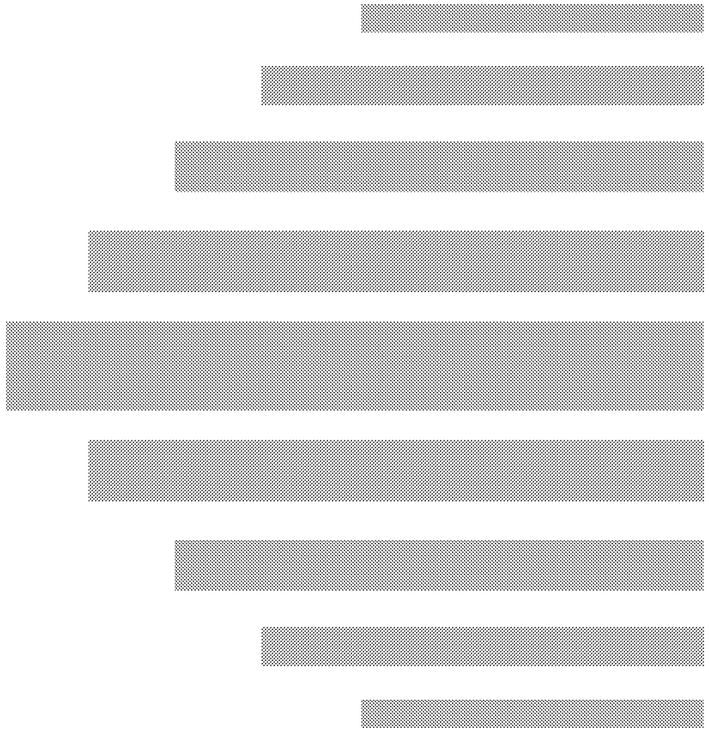
From: Kathryn A. Thomas [mailto:kthomas@mott.org]
Sent: Wednesday, October 07, 2015 12:18 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Contact info

Hi, Sara.

My direct office number and cell are both listed below. I am off in pursuit of answers to your immediate questions.

Best regards,
Kathryn

Kathryn Thomas
Vice President – Communications
Charles Stewart Mott Foundation
503 S. Saginaw Street, Suite 1200
Flint, MI 48502-1851
office: 810-766-1734 | cell PPI



TAKING ACTION ON FLINT WATER

www.mi.gov/FlintWater

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 4:26 PM
To: 'Workman, Wayne (TREASURY)'
Subject: RE: flint docs

Thx.

Was there any vote at all from Flint City Council to use Flint water once DWSD sent that notice and city had to make determination in spring of 2014??

From: Workman, Wayne (TREASURY)
Sent: Wednesday, October 07, 2015 4:25 PM
To: Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Cc: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>
Subject: FW: flint docs

Harvey, Attached are various documents and press reports of the City Council`s vote in March 2013 to join KWA. We have not located the actual resolution and it is not on the City`s website. It is interesting that the only no vote explained he wanted to just use Flint River water. Wayne

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Dempkowski, Angela (Treasury)
Sent: Wednesday, October 07, 2015 4:20 PM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Subject: flint docs

Revised pdf

Angela Dempkowski | Senior Executive Management Assistant/Treasury
State of Michigan | 430 W. Allegan Street, 1st Floor | Lansing, MI 48922
(517) 373-4415 | (517) 373-0633 (fax)
dempkowskia@michigan.gov

Think Green! Don't print this e-mail unless you need to.

CONFIDENTIALITY NOTICE: This e-mail, and any attachments, is for the sole use of the intended recipient(s) and may contain information that is confidential and protected from disclosure under the law. Any unauthorized review, use, disclosure, or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail, and delete/destroy all copies of the original message and attachments.
Thank you

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 4:58 PM
To: 'Kathryn A. Thomas'
Subject: FW: Final Draft Advisory

Importance: High

Kathryn –

Please see below.

This is proposed media advisory that sounds like we can shoot out at any time after conclusion of Technical Advisory meeting from today. Please review and make sure you and Mott team are all good with it.

We'd like to get out ASAP. We won't be confirming any details on either background or on or off the record to ensure all final pieces can come together between now and tomorrow morning.

Thanks so much and talk soon,
SW

From: Kennedy, Jordan (GOV)
Sent: Wednesday, October 07, 2015 4:48 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Final Draft Advisory

Wednesday, Oct. 7, 2015
Contact: Sara Wurfel or Dave Murray
Office: 517-335-6397

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From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 5:01 PM
To: 'jlorenz@cityofflint.com'
Subject: FW: Final Draft Advisory

Importance: High

Jason –

Please see below.

Per various conversations between the mayor and DEQ Director Wyant, et al, this is proposed media advisory that sounds like we can shoot out at any time after conclusion of Technical Advisory meeting from today.

Please review and make sure good with it.

We'd like to get out ASAP. We won't be confirming any details on either background or on or off the record to ensure all final pieces can come together between now and tomorrow morning. Hoping that works and makes sense on that end too.

Thanks so much and talk soon,
SW

From: Kennedy, Jordan (GOV)
Sent: Wednesday, October 07, 2015 4:48 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Final Draft Advisory

Wednesday, Oct. 7, 2015
Contact: Sara Wurfel or Dave Murray
Office: 517-335-6397

Editor's note: Media must present valid press credentials on site.

Thursday, Oct. 8 at 10 a.m.
Gov. Rick Snyder will make an announcement regarding Flint water. He will be joined by Flint Mayor Dayne Walling, Michigan Environmental Quality Director Dan Wyant, Michigan Department of Health and Human Services Director Nick Lyon, Dr. Eden Wells, the state's Chief Medical Executive, and Ridgway White, president of the Charles Stewart Mott Foundation.

A livestream option is also available at www.michigan.gov/snyderlive. If you wish to embed the event please visit http://new.livestream.com/snyderlive for more information.

Location:
Commerce Center/Mott Foundation Building - Conference Center, Ground Floor

519 S. Saginaw St.
Flint, MI

Thursday, Oct. 8 at 7 p.m.
Snyder will offer remarks at the Celebration of Life Gala supporting Magen David Adom (Israel's national 911 and emergency services).

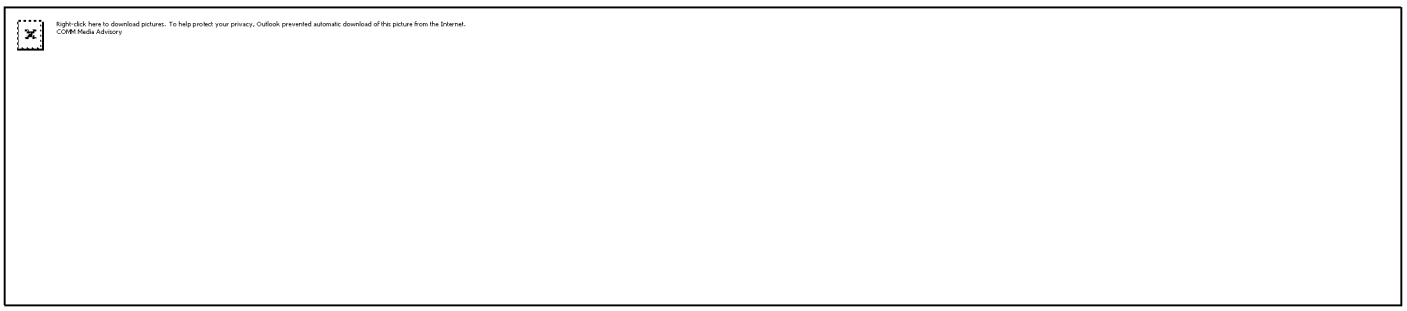
Location:
Adat Shalom Synagogue
29901 Middlebelt Rd.
Farmington Hills, MI

#####

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 6:20 PM
To: Monica Davey - NY Times; monicaruthdavey@gmail.com
Subject: FW: Snyder Media Advisory for Thursday, Oct. 8

FYI

From: GOV Newsroom [mailto:govnewsroom@govsubscriptions.michigan.gov]
Sent: Wednesday, October 07, 2015 6:13 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Snyder Media Advisory for Thursday, Oct. 8



Wednesday, Oct. 7, 2015
Contact: Sara Wurfel or Dave Murray
Office: 517-335-6397

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#####

STAY CONNECTED:

This email was sent to wurfels@michigan.gov on behalf of: The Executive Office of the Governor · 111 South Capitol Avenue · Lansing, MI 48909 · 517-335-7858

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 7:02 PM
To: 'Wisely, John'; Wurfel, Brad (DEQ)
Subject: RE: Flint funding question.

Importance: High

Hi there John -

What I'd say is that this is an option we're helping thoroughly review and consider with the city, and the technical advisory committee's work is much appreciated in this matter. We're also focused on working hard in collaboration with all and implementing the key action steps outlined on Oct. 2 to help protect public health and ensure safe, accessible drinking water for Flint residents.

We have slated a time tomorrow morning for the Governor and administration with city and community leaders to provide an update overall on Flint water so hoping you got those details. (Just let me know if you did not).

Thanks and best,
SW

-----Original Message-----
From: Wisely, John [mailto:jwisely@freepress.com]
Sent: Wednesday, October 07, 2015 5:27 PM
To: Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint funding question.

Sara and Brad:
You may have seen that the technical advisory committee today recommended that Flint reconnect to Detroit's water system.
Walling claims that will cost $12 million over nine months. He's asking the governor in the legislature to come up with the money.
Can we get a comment from the governor ASAP?
I'd appreciate it.
John

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 7:06 PM
To: 'Stephen Carmody'
Subject: RE: A news media question
Attachments: Snyder Media Advisory for Thursday, Oct. 8

The Governor and administration are planning an update on Flint water with city and community leaders tomorrow, Steve. The media advisory is attached just in case.

Thanks much and best regards,
SW

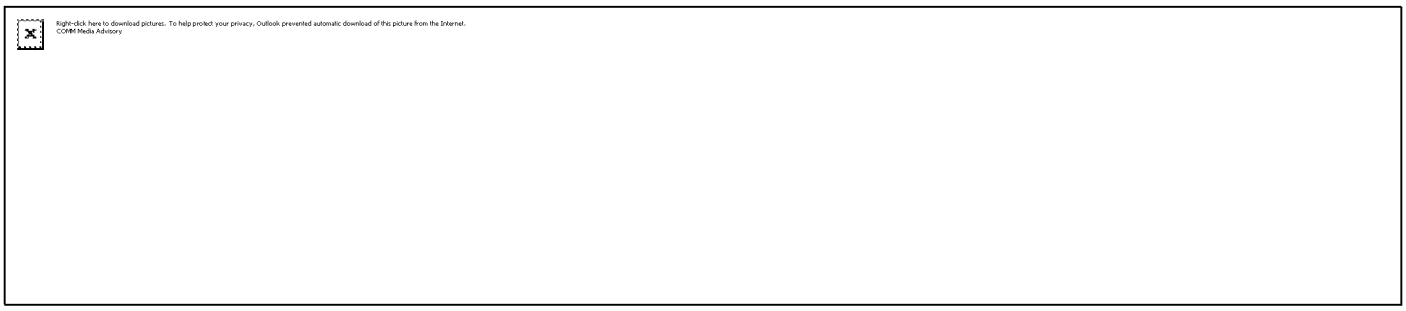
From: Stephen Carmody [mailto:sgcarmod@umich.edu]
Sent: Wednesday, October 07, 2015 6:52 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: A news media question

Sara,

Is there anything planned for tomorrow on Flint water?

Steve Carmody
Michigan Radio

From: GOV Newsroom <govnewsroom@govsubscriptions.michigan.gov>
Sent: Wednesday, October 07, 2015 6:13 PM
Subject: Snyder Media Advisory for Thursday, Oct. 8



Wednesday, Oct. 7, 2015
Contact: Sara Wurfel or Dave Murray
Office: 517-335-6397

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#####

STAY CONNECTED:

This email was sent to wurfeis@michigan.gov on behalf of: The Executive Office of the Governor · 111 South Capitol Avenue · Lansing, MI 48909 · 517-335-7858

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 7:06 PM
To: 'Davey, Monica'
Subject: RE: FW: Snyder Media Advisory for Thursday, Oct. 8

You can say as early as Thursday. Would prefer that the other pieces not be used.

Thanks much,
SW

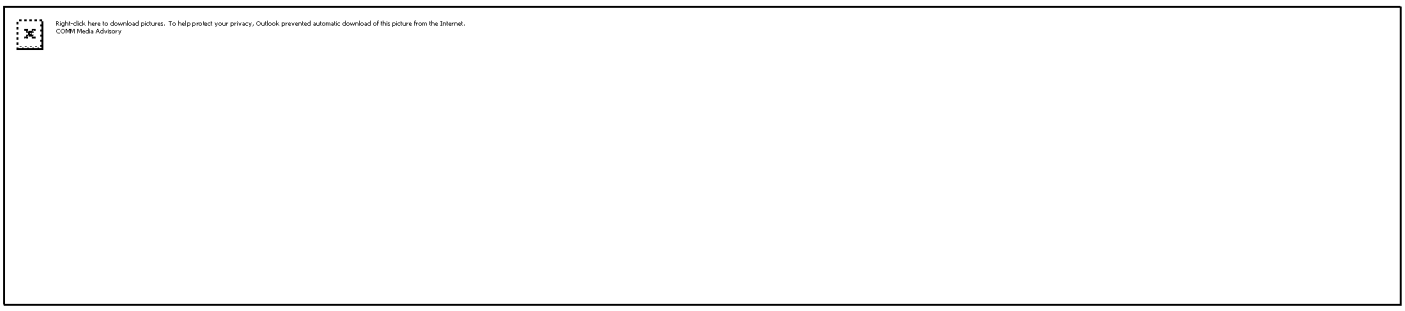
From: Davey, Monica [mailto:davey@nytimes.com]
Sent: Wednesday, October 07, 2015 6:27 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Re: FW: Snyder Media Advisory for Thursday, Oct. 8

Thank you.
Is there anything at all I can say beyond:

> Officials were meeting in Flint on Wednesday afternoon and talks were underway, officials said, for additional solutions that could be announced as early as this week.
>
> can I say as early as Thursday?
>
> Can I say that the governor has called a press conference for thursday?
>
> Anything at all?

On Wed, Oct 7, 2015 at 5:19 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

> FYI
>
> ---
>
> **From:** GOV Newsroom [mailto:govnewsroom@govsubscriptions.michigan.gov]
> **Sent:** Wednesday, October 07, 2015 6:13 PM
> **To:** Wurfel, Sara (GOV) <Wurfels@michigan.gov>
> **Subject:** Snyder Media Advisory for Thursday, Oct. 8



Wednesday, Oct. 7, 2015
Contact: Sara Wurfel or Dave Murray
Office: 517-335-6397

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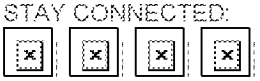
STAY CONNECTED:



This email was sent to wurfels@michigan.gov on behalf of: The Executive Office of the Governor · 111 South Capitol Avenue · Lansing, MI 48909 · 517-335-7858

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 7:24 PM
To: 'Hicks, Mark'; Murray, David (GOV)
Subject: RE: Flint water committee

Hi there Mark –

Happy to help. What I'd say is that this is an option we're helping thoroughly review and consider with the city, and the technical advisory committee's work is much appreciated in this matter. We're also focused on working hard in collaboration with all and implementing the key action steps outlined on Oct. 2 to help protect public health and ensure safe, accessible drinking water for Flint residents.

As you noted, we have slated a time tomorrow morning for the Governor and administration with city and community leaders to provide an update on Flint water so hoping you got those details. Stay tuned.

Thanks and best,
SW

From: Hicks, Mark [mailto:MHicks@detroitnews.com]
Sent: Wednesday, October 07, 2015 7:08 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Flint water committee

Hello. This is Mark Hicks, a reporter at The Detroit News. I am trying to reach representatives for Gov. Snyder's office tonight regarding a recommendation from a committee of experts on Wednesday to reconnect Flint to Detroit's water system to improve the drinking water quality. Has the governor's office received this recommendation, and does it impact the announcement tomorrow regarding Flint's water system?

Please feel free to let me know if you or another representative can reach me before 8:30 p.m. EST tonight for a brief phone interview or statement regarding this recommendation. I realize this is late and short notice after-hours, and some information might not be immediately accessible, but any help provided will be greatly appreciated and better inform our readers. Thank you for your time.

Mark Hicks
Reporter, The Detroit News
Phone: (313) 222-2117
E-mail: mhicks@detroitnews.com

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 7:40 PM
To: Ron Fonger - MLive/Flint Journal; 'racosta1@mlive.com'
Subject: Technical Advisory Committee, water switch & Q on tomorrow

Importance: High

Greetings, Ron and Roberto –

Sorry for delay. Been on conference calls and meetings until just now.

Happy to help. I think Dave got a chance to cover some of this with you already, but just in case.

This is an option that we're helping thoroughly review and consider with the city, and the technical advisory committee's work is much appreciated in this matter. We're also focused on working hard in collaboration with all and implementing the key action steps outlined on Oct. 2 to help protect public health and ensure safe, accessible drinking water for Flint residents.

As you noted, we have slated a time tomorrow morning for the Governor and administration with city and community leaders to provide an update on Flint water. Stay tuned.

Thanks so much and looking forward to seeing you tomorrow. Just let me know if there's something you may need in the interim.

Best regards,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 7:41 PM
To: 'Dayne Walling'
Subject: RE: City Council invites

Great – got them, thanks. Harvey will be reaching out.

From: Dayne Walling [mailto:dwalling@cityofflint.com]
Sent: Wednesday, October 07, 2015 7:31 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Re: City Council invites

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PPI

On Wed, Oct 7, 2015 at 6:47 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

> Thanks, Mayor.
>
> We will happy to do so. Harvey Hollins make these invites asap and I'm sure he has some of the contact information, but if you could pass along all as soon as you get a chance, that'd be great and much appreciated.
>
> I will be sending you and Jason a draft run of show and release yet this evening for your review, edit and adding in a quote.
>
> Please let me know if there is anything else at all needed between now and then.
>
> Thanks again and will look forward to seeing you tomorrow morning,
>
> SW

Sara Wurfel, APR

Press Secretary | Executive Office of Governor Rick Snyder

wurfels@michigan.gov

517-335-6397, office

PPI mobile

Twitter:@SaraLW

From: Dayne Walling [mailto:dwalling@cityofflint.com]
Sent: Wednesday, October 07, 2015 5:27 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: City Council invites

Sara, please invite all of the Flint city council members. I left you a voicemail on this same subject with more background. Call me if you need assistance with reaching them.

Thanks

--

Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
810-766-7346
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

--

Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
810-766-7346
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 7:49 PM
To: Weiss, Kurt (DTMB)
Subject: RE: Flint Water Summary for Governor

Thanks much, Kurt. Very helpful and appreciated!

See the number changed slightly again upward. Though supposed better to get right number high enough out of gate rather than have to come back again.

From: Weiss, Kurt (DTMB)
Sent: Wednesday, October 07, 2015 7:34 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Fwd: Flint Water Summary for Governor

FYI. Here's the latest.

Sent from my iPhone

Begin forwarded message:

> **From:** "Duncan, Nancy (DTMB)" <duncann1@michigan.gov>
> **Date:** October 7, 2015 at 6:17:23 PM EDT
> **To:** "Weiss, Kurt (DTMB)" <WeissK1@michigan.gov>
> **Subject: FW: Flint Water Summary for Governor**
>
> f.y.i.

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 7:53 PM
To: Mayor Dayne Walling - City of Flint; Jason Lorenz - City of Flint
Subject: FW: Draft run of show and release

Importance: High

Greetings Mayor and Jason –

Here is proposed run of show for tomorrow, along with the draft release. Again, per earlier conversations, highly confidential and not for sharing as dependent on final details getting worked out at tomorrow's 9 a.m. meeting.

On the release, please note in particular the placeholder for the Mayor's quote.

Please review and let us know of any edits or concerns you may have. We look forward to your feedback. If there's a chance you can get us the quote sometime yet this evening, that'd be fantastic.

Also, we'd like to put a city media contact here as well. Assuming that's Jason. Just wanted to verify which contact info should we use?

Thanks again. Glad to be working and collaborating with the city on this very challenging issue.

Best regards,
SW

Run of show & comment topics below:

9:45 AM – 10:00 AM Pre-Brief with all speakers
10:00 AM – 10:01 AM Harvey Hollins kicks off press conference; introduces Governor
10:01 AM – 10:05 AM Governor gives remarks
10:05 AM – 10:06 AM Harvey Hollins introduces Mayor Dayne Walling
10:06 AM – 10:10 AM Mayor Walling gives remarks
10:10 AM – 10:11 AM Harvey Hollins introduces DEQ Director Dan Wyant
10:11 AM – 10:15 AM Director Wyant gives remarks
10:15 AM – 10:16 AM Harvey Hollins introduces DHHS Director Nick Lyon
10:16 AM – 10:17 AM Director Nick Lyon introduces Dr. Eden Wells
10:17 AM – 10:20 AM Dr. Eden Wells remarks
10:20 AM – 10:21 AM Harvey Hollins introduces Ridgway White of Mott Foundation
10:21 AM – 10:25 AM Ridgway White gives remarks
10:25 AM – 10:35 AM Q&A from the podium
10:35 AM Event concludes; Governor departs

Nature of comments:
RDS – Collaboration led to solution, outline of solution
Mayor Walling – Importance of solution to Flint
Dan Wyant – Overview of steps on transition from Flint River to DWSD, school testing results
Nick Lyon – DHHS involvement
Dr. Eden Wells – Testing of water going forward, use of filters approved by NSF
Ridgway White – Importance of collaboration/commitment to Flint

Release:

Gov. Rick Snyder: Move back to Detroit water provides best protection for public health in Flint

State, Mott Foundation and city form partnership to fund switch

FLINT, Mich. – Flint families and children will be better protected by reconnecting with the Great Lakes Water Authority as the source of the city's drinking water, Gov. Rick Snyder said.

Snyder said Thursday that he will request the state Legislature to provide half, or $6 million, of the $12 million needed to reconnect with the authority. The Flint city government will provide $2 million and the Charles Stewart Mott Foundation will donate $4 million.

"All Flint residents need clean, safe drinking water," Snyder said. "The technical experts helping the city on its water advisory all agree this move back to the Great Lakes Water Authority provides the best public health protection for children and families. This effort today is the result of people coming together to solve a problem. I appreciate Detroit's willingness to reconnect with Flint, the Mott Foundation's generous donation, and the dedication of all parties to come together to protect Flint families and children."

The Michigan Departments of Environmental Quality and Health and Human Services today also committed an additional $3.5 million for water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

Flint city leaders requested the state's help to fund the reconnection after a Wednesday meeting of Flint's Technical Advisory Committee. Flint's move to the Great Lakes Water Authority is expected to cost about $1.3 million per month until the Karegnondi Water Authority is completed next summer.

INSERT MAYOR QUOTE HERE

The move to Detroit water, which is drawn from Lake Huron, carries many public health benefits. As large bodies of water, the Great Lakes are naturally prone to fewer problems from large rain events and other runoff issues that can be present in shallower rivers. Additionally, the Great Lakes Water Authority has already fully optimized its corrosion control, using phosphates to help coat the insides of pipes and prevent lead from leaching into the water.

However, reconnecting with the authority will not completely resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control. Additionally, some households in the city could experience lead in their drinking water until all lead pipes and plumbing are replaced.

INSERT MOTT FOUNDATION QUOTE HERE

To best protect public health, Snyder said state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure.

Free filters are available for current MDHHS clients at the 125 E. Union St. or 4809 Clio Road MDHHS office locations. For residents who are not currently enrolled in MDHHS assistance programs, free filters are available at the Genesee County Community Action Resource Department offices at 2727 Lippincott and 601 North Saginaw in Flint. Staff will be at all four locations from 9 a.m. to 4 p.m., Monday through Friday, to distribute filters and assist residents who have questions about proper installation. At the Lippincott location

only, extended hours will be offered this weekend, including until 7 p.m. on Thursday and Friday and from 10 a.m. to 2 p.m. on Saturday.

Other good practices for residents concerned about lead include turning on the cold water tap and running the water until it's as cold as it will go. Additionally, only use cold water for cooking, drinking and especially mixing baby formula.

School test results released; more investigation planned

The state today also released the first results from its lead screening program in schools and homes. Of 37 total samples taken at 13 buildings, four samples spread over three buildings exceeded the federal action level of 15 parts per billion.

However, this sampling provides only an initial screen, and the state is committing to further testing water and inspecting plumbing at these schools. Until testing is complete, schools are advised to continue using bottled water and filtration as a precaution to protect children.

In addition, free testing is still available for any other Flint school, including daycares and Head Starts. Free testing is also available for any Flint resident.

Additional information, including more detailed lead screening results, is available at www.michigan.gov/flintwater.

###

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 8:07 PM
To: GovCalendar
Subject: Accepted: RDS/DW - Meeting with Mayor Dayne Walling and Ridgeway White

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 8:07 PM
To: GovCalendar
Subject: Accepted: RDS - REMARKS (AHeaton) Press Conference Re: Flint Water

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 8:16 PM
To: 'Hicks, Mark'
Subject: RE: Flint water committee

If you word it like that – an announcement/update on the Flint water situation is expected tomorrow – that would be fine. Just can't have any details of location or specific topics mentioned.

From: Hicks, Mark [mailto:MHicks@detroitnews.com]
Sent: Wednesday, October 07, 2015 7:57 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: Flint water committee

Thanks for sending this so quickly. Just to follow up, based on the advisory sent: we cannot mention that an announcement on the water situation is expected tomorrow?

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Wednesday, October 07, 2015 7:24 PM
To: Hicks, Mark <MHicks@detroitnews.com>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: Flint water committee

Hi there Mark –

Happy to help. What I'd say is that this is an option we're helping thoroughly review and consider with the city, and the technical advisory committee's work is much appreciated in this matter. We're also focused on working hard in collaboration with all and implementing the key action steps outlined on Oct. 2 to help protect public health and ensure safe, accessible drinking water for Flint residents.

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To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
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Please feel free to let me know if you or another representative can reach me before 8:30 p.m. EST tonight for a brief phone interview or statement regarding this recommendation. I realize this is late and short notice after-hours, and

some information might not be immediately accessible, but any help provided will be greatly appreciated and better inform our readers. Thank you for your time.

Mark Hicks
Reporter, The Detroit News
Phone: (313) 222-2117
E-mail: mhicks@detroitnews.com

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 10:07 PM
To: Kathryn A. Thomas
Subject: Re: Draft release

How about you just call my cell PPI whenever you're ready and you'd like.

Sent from my iPhone

> On Oct 7, 2015, at 10:00 PM, Kathryn A. Thomas <kthomas@mott.org> wrote:
>
> Sadly, I'm still in the office. ;) I need to send e-mail out, but could chat after that, if you like.
>
> -----Original Message-----
> From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
> Sent: Wednesday, October 7, 2015 9:59 PM
> To: Kathryn A. Thomas <kthomas@mott.org>
> Cc: Biehl, Laura (GOV) <BiehlL@michigan.gov>; Heaton, Anna (GOV) <HeatonA@michigan.gov>
> Subject: Re: Draft release
>
> Many thanks, Kathryn. I think we can concur with nearly all of these and agreed on clarification re: connection and timeframe. Headline will be a challenge since they also pull water from Detroit River. Will send updated version once we have other review and edits in.
>
> Would it be helpful / do you want to connect yet tonight? Will be more than happy to call if so. Otherwise don't want to bug you this late.
>
> Just let me know.
>
> SW
>
> Sent from my iPhone
>
> On Oct 7, 2015, at 9:41 PM, Kathryn A. Thomas <kthomas@mott.org<mailto:kthomas@mott.org>> wrote:
>
> This version contains a quote from Ridgway. Do I understand correctly that you will not issue a release before 10 am?
>
> I will be leaving the office soon. Please feel free to call me on my mobile PPI at any time. I hope to be back here tomorrow before your team begins arriving.
>
> Best,
> Kathryn
>
> From: Kathryn A. Thomas
> Sent: Wednesday, October 7, 2015 8:23 PM
> To: 'Wurfel, Sara (GOV)' <Wurfels@michigan.gov<mailto:Wurfels@michigan.gov>>
> Cc: Biehl, Laura (GOV) <BiehlL@michigan.gov<mailto:BiehlL@michigan.gov>>; Heaton, Anna (GOV) <HeatonA@michigan.gov<mailto:HeatonA@michigan.gov>>

> Subject: RE: Draft release
> Importance: High
>
> Hi, Sara.
>
> I will work with Ridgway on a quote, but I wanted to get some initial comments back to you as quickly as possible. Please be sure to view markup to see the comments.
>
> I'm still in my office. Please call me there (810-766-1734) or on my mobile PPI if there's anything you wish to discuss.
>
> Kathryn
>
> From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
> Sent: Wednesday, October 7, 2015 7:22 PM
> To: Kathryn A. Thomas <kthomas@mott.org<mailto:kthomas@mott.org>>
> Cc: Biehl, Laura (GOV) <BiehlL@michigan.gov<mailto:BiehlL@michigan.gov>>; Heaton, Anna (GOV) <HeatonA@michigan.gov<mailto:HeatonA@michigan.gov>>
> Subject: RE: Draft release
> Importance: High
>
> Greetings again, Kathryn -
>
> And here is the draft confidential news release with placeholders for the Mayor and Mr. White's quotes. Dependent on final details getting worked out at tomorrow's meeting.
>
> Please review and let us know of any edits or concerns you may have. We look forward to your feedback. If there's a chance you can get us the quote sometime yet this evening, that'd be fantastic.
>
> Also, we'd like to put a Mott Foundation media contact here as well. Would that be yourself? And which numbers/contact info should we use?
>
> Thanks again. We are very glad to be working with you on this.
>
> Best regards,
> SW
>
>
> Gov. Rick Snyder: Move back to Detroit water provides best protection for public health in Flint State, Mott Foundation and city form partnership to fund switch
>
> FLINT, Mich. - Flint families and children will be better protected by reconnecting with the Great Lakes Water Authority as the source of the city's drinking water, Gov. Rick Snyder said.
>
> Snyder said Thursday that he will request the state Legislature to provide half, or $6 million, of the $12 million needed to reconnect with the authority. The Flint city government will provide $2 million and the Charles Stewart Mott Foundation will donate $4 million.
>
> "All Flint residents need clean, safe drinking water," Snyder said. "The technical experts helping the city on its water advisory all agree this move back to the Great Lakes Water Authority provides the best public health protection for children and families. This effort today is the result of people coming together to solve a problem. I appreciate Detroit's

willingness to reconnect with Flint, the Mott Foundation's generous donation, and the dedication of all parties to come together to protect Flint families and children."
>
> The Michigan Departments of Environmental Quality and Health and Human Services today also committed an additional $3.5 million for water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.
>
> Flint city leaders requested the state's help to fund the reconnection after a Wednesday meeting of Flint's Technical Advisory Committee. Flint's move to the Great Lakes Water Authority is expected to cost about $1.3 million per month until the Karegnondi Water Authority is completed next summer.
>
> INSERT MAYOR QUOTE HERE
>
> The move to Detroit water, which is drawn from Lake Huron, carries many public health benefits. As large bodies of water, the Great Lakes are naturally prone to fewer problems from large rain events and other runoff issues that can be present in shallower rivers. Additionally, the Great Lakes Water Authority has already fully optimized its corrosion control, using phosphates to help coat the insides of pipes and prevent lead from leaching into the water.
>
> However, reconnecting with the authority will not completely resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control. Additionally, some households in the city could experience lead in their drinking water until all lead pipes and plumbing are replaced.
>
> INSERT MOTT FOUNDATION QUOTE HERE
>
> To best protect public health, Snyder said state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure.
>
> Free filters are available for current MDHHS clients at the 125 E. Union St. or 4809 Clio Road MDHHS office locations. For residents who are not currently enrolled in MDHHS assistance programs, free filters are available at the Genesee County Community Action Resource Department offices at 2727 Lippincott and 601 North Saginaw in Flint. Staff will be at all four locations from 9 a.m. to 4 p.m., Monday through Friday, to distribute filters and assist residents who have questions about proper installation. At the Lippincott location only, extended hours will be offered this weekend, including until 7 p.m. on Thursday and Friday and from 10 a.m. to 2 p.m. on Saturday.
>
> Other good practices<http://michigan.gov/documents/deq/FlintWater_Tips_100115_002_501845_7.pdf> for residents concerned about lead include turning on the cold water tap and running the water until it's as cold as it will go. Additionally, only use cold water for cooking, drinking and especially mixing baby formula.
>
> School test results released; more investigation planned The state today also released the first results from its lead screening program in schools and homes. Of 37 total samples taken at 13 buildings, four samples spread over three buildings exceeded the federal action level of 15 parts per billion.
>
> However, this sampling provides only an initial screen, and the state is committing to further testing water and inspecting plumbing at these schools. Until testing is complete, schools are advised to continue using bottled water and filtration as a precaution to protect children.
>
> In addition, free testing is still available for any other Flint school, including daycares and Head Starts. Free testing is also available for any Flint resident.
>

> Additional information, including more detailed lead screening results, is available at www.michigan.gov/flintwater<http://www.michigan.gov/flintwater>.
> ###
>
>
> From: Heaton, Anna (GOV)
> Sent: Wednesday, October 07, 2015 6:26 PM
> To: 'Kathryn A. Thomas' <kthomas@mott.org<mailto:kthomas@mott.org>>
> Cc: Wurfel, Sara (GOV) <Wurfels@michigan.gov<mailto:Wurfels@michigan.gov>>
> Subject: RE: security contact
>
> Thanks so much, Kathryn. Sorry to bother you so late.
>
> Run of show & comment topics below:
>
>
>
> 9:45 AM - 10:00 AM Pre-Brief with all speakers
>
> 10:00 AM - 10:01 AM Harvey Hollins kicks off press conference; introduces Governor
>
> 10:01 AM - 10:05 AM Governor gives remarks
>
> 10:05 AM - 10:06 AM Harvey Hollins introduces Mayor Dayne Walling
>
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>
> 10:10 AM - 10:11 AM Harvey Hollins introduces DEQ Director Dan Wyant
>
> 10:11 AM - 10:15 AM Director Wyant gives remarks
>
> 10:15 AM - 10:16 AM Harvey Hollins introduces DHHS Director Nick Lyon
>
> 10:16 AM - 10:17 AM Director Nick Lyon introduces Dr. Eden Wells
>
> 10:17 AM - 10:20 AM Dr. Eden Wells remarks
>
> 10:20 AM - 10:21 AM Harvey Hollins introduces Ridgway White of Mott Foundation
>
> 10:21 AM - 10:25 AM Ridgway White gives remarks
>
> 10:25 AM - 10:35 AM Q&A from the podium
>
> 10:35 AM Event concludes; Governor departs
>
>
>
> Nature of comments:
>
> RDS - Collaboration led to solution, outline of solution
>
> Mayor Walling - Importance of solution to Flint

>
> Dan Wyant - School testing results, overview of steps on transition from Flint River to DWSD
>
> Nick Lyon - DHHS involvement
>
> Dr. Eden Wells - Testing of water going forward, use of filters approved by NSF
>
> Ridgway White - Importance of collaboration/commitment to Flint
>
> From: Kathryn A. Thomas [mailto:kthomas@mott.org]
> Sent: Wednesday, October 07, 2015 6:20 PM
> To: Heaton, Anna (GOV) <HeatonA@michigan.gov<mailto:HeatonA@michigan.gov>>
> Subject: security contact
>
> Highlighted below.
>
> From: Kathryn A. Thomas
> Sent: Wednesday, October 7, 2015 4:32 PM
> To: 'Wurfel, Sara (GOV)' <Wurfels@michigan.gov<mailto:Wurfels@michigan.gov>>
> Subject: RE: Contact info
>
> Would you mind if we were to have a Mott logo on the podium? It will be our only visual representation. If it's a problem, let me know.
>
> Our head of security is Phil Snyder. (I never thought to ask if there's any relation!) His cell phone # is PPI
>
> The main security number at our front desk is 810-767-5052. That will get you to one of whichever two guards are on duty at the desk.
>
> The governor can park in the loading zone immediately along the back of our building. Our security staff will be watching for him and can let him in through the back door of the building. How many other vehicles will you need parking for?
>
> I want to get this info off to you, but I am about to follow up with another e-mail. Stay tuned.
>
>
>
>
>
> From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
> Sent: Wednesday, October 7, 2015 4:19 PM
> To: Kathryn A. Thomas <kthomas@mott.org<mailto:kthomas@mott.org>>
> Subject: RE: Contact info
>
> Got it - many thanks, Kathryn.
>
> Also, here is what had mentioned about podium sign. Basic, to the point/message and no one entity as primary. Work and comfortable for that end?
>
> We should indeed make sure there's security connections. Who is your point for that and contact info? I'm trying to verify who's going to be lead on our team's EP unit and will also share as soon as receive.
>

> From: Kathryn A. Thomas [mailto:kthomas@mott.org]
> Sent: Wednesday, October 07, 2015 1:27 PM
> To: Wurfel, Sara (GOV) <Wurfels@michigan.gov<mailto:Wurfels@michigan.gov>>
> Subject: RE: Contact info
>
> Brief correction for the address on the advisory. Our building manager advises that we should use the name that appears on the outside of the building so as to avoid confusion. She recommends the following:
>
> Commerce Center Building
> 519 S. Saginaw Street
> Conference Center, Ground Floor
>
> I also wanted to ask if we should connect our building security staff with your security staff. Please let me know.
>
> Thanks!
>
> Kathryn
>
> From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
> Sent: Wednesday, October 7, 2015 12:41 PM
> To: Kathryn A. Thomas <kthomas@mott.org<mailto:kthomas@mott.org>>
> Cc: Biehl, Laura (GOV) <BiehlL@michigan.gov<mailto:BiehlL@michigan.gov>>; Heaton, Anna (GOV) <HeatonA@michigan.gov<mailto:HeatonA@michigan.gov>>; Janiszewski, Erik (GOV) <JaniszewskiE@michigan.gov<mailto:JaniszewskiE@michigan.gov>>; Utley, Corey (GOV) <UtleyC@michigan.gov<mailto:UtleyC@michigan.gov>>
> Subject: RE: Contact info
>
> Many thanks, Kathryn.
>
> So appreciate your and the Mott Foundation's leadership and assist on this and helping make the Dining Room conference center space in the Mott Foundation Building available.
>
> Here too is all my contact information, along with our team who will be working on this as well. Have cc'd them here as well.
>
> We'll wait to hear from you on some of the outstanding technical and logistical Qs, and also be back in touch as we have drafts of materials hopefully late this afternoon.
>
> Laura Biehl
> PPI mobile
> biehll@michigan.gov<mailto:biehll@michigan.gov>
>
> Anna Heaton
> PPI mobile
> heatona@michigan.gov<mailto:heatona@michigan.gov>
>
> Corey Utley (Advance Coordinator)
> PPI mobile
> utleyc@michigan.gov<mailto:utleyc@michigan.gov>
>

> Depending on any particulars, we also may need our livestream guru and videographer, Erik Janiszewski, to connect with your IS services team as well. His mobile is PPI and JaniszewskiE@michigan.gov<mailto:JaniszewskiE@michigan.gov>.
>
> Thanks again and warm regards,
> SW
>
> Sara Wurfel, APR
> Press Secretary | Executive Office of Governor Rick Snyder wurfels@michigan.gov<mailto:wurfels@michigan.gov>
> 517-335-6397, office
> PPI mobile
> Twitter:@SaraLW
>
>
>
> From: Kathryn A. Thomas [mailto:kthomas@mott.org]
> Sent: Wednesday, October 07, 2015 12:18 PM
> To: Wurfel, Sara (GOV) <Wurfels@michigan.gov<mailto:Wurfels@michigan.gov>>
> Subject: Contact info
>
> Hi, Sara.
>
> My direct office number and cell are both listed below. I am off in pursuit of answers to your immediate questions.
>
> Best regards,
> Kathryn
>
> Kathryn Thomas
> Vice President - Communications
> Charles Stewart Mott Foundation
> 503 S. Saginaw Street, Suite 1200
> Flint, MI 48502-1851
> office: 810-766-1734 | cell PPI
>
> <Draft release_Mott comments and RHW quote.docx>

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 11:44 PM
To: 'Kathryn A. Thomas'
Subject: FW: Updated news release

Importance: High

Greetings Kathryn –

Per our conversation just a bit ago, below is latest version of release that works to incorporate and marry all of yours and the city's comments, along with others. Believe we got most addressed.

We opted to keep a few things for flow.

Please review and make sure all good from your end.

We can do any final, major tweaks in the morning.

Also, here are a couple of pieces from DWSD/GLWA that show how the system pulls its water from both Lake Huron AND the Detroit River.

Water 101/Q&A about Water Treatment - http://www.dwsd.org/pages_n/water101.html
Q: What is the source my drinking water?
A: The Detroit Water and Sewerage Department gets all of its water from the Detroit River and Lake Huron.

Detroit Water & Sewerage Dept Fact Sheet --
http://www.dwsd.org/downloads_n/about_dwsd/fact_sheet/dwsd_fact_sheet.pdf
The water system draws fresh water from the Great Lakes System, with Lake Huron to the north and the Detroit River to the south.

Holler if anything else needed at all between now and tomorrow morning. See you soon and thanks for all your help!

SW

Gov. Rick Snyder: Move back to Detroit water provides best protection for public health in Flint

State, Mott Foundation, city form partnership to fund switch until KWA is ready

FLINT, Mich. – Flint families and children will be better protected by reconnecting with the Great Lakes Water Authority as the source of the city's drinking water until the Karegnondi Water Authority pipeline is completed, Gov. Rick Snyder said.

Snyder said Thursday that he will request the state Legislature to provide half, or $6 million, of the $12 million needed to reconnect with the authority through next summer, when the KWA is expected to be completed.

The Flint city government will provide $2 million and the Charles Stewart Mott Foundation has committed $4 million.

“All Flint residents need clean, safe drinking water,” Snyder said. “The technical experts helping the city on its water advisory all agree this move back to the Great Lakes Water Authority provides the best public health protection for children and families. This effort today is the result of people coming together to solve a problem. I appreciate Detroit’s willingness to reconnect with Flint, the Mott Foundation’s generous commitment, and the dedication of all parties to come together to protect Flint families and children.”

Flint city leaders requested the state’s help to fund the reconnection and to assist with health and infrastructure issues. Flint’s move to the Great Lakes Water Authority is expected to cost about $1.3 million per month until the Karegnondi Water Authority is completed next summer.

“It’s heartening to know so many people are working at so many levels to bring safe, clean water back to Flint,” Mott Foundation President Ridgway White said. “We believe that reconnecting the city’s water supply to Lake Huron is the right and necessary thing to do, and we’re glad we could help the state and the city make it happen.”

The move to Detroit water is expected to carry public health benefits. As large bodies of water, the Great Lakes are naturally prone to fewer problems from large rain events and other runoff issues that can sometimes be present in shallower rivers. Additionally, the Great Lakes Water Authority water already has additional corrosion control, using phosphates to help coat the insides of pipes and limit lead from leaching into the water.

However, reconnecting with the authority will not completely resolve the city’s problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control. Additionally, some households in the city could experience lead in their drinking water until all lead pipes and plumbing are replaced.

"Reconnecting to Detroit is the fastest way to deliver clean, safe water to Flint and stabilize the infrastructure system,” Flint Mayor Dayne Walling said. “I appreciate the state, the Mott Foundation, Detroit, and the county's participation in a solution for Flint's water problems. The health and safety of Flint's families, children and seniors is my top priority and reconnecting to Detroit is a major step that the city could not take alone given budget constraints."

To best protect public health, Snyder said state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure. The Michigan Departments of Environmental Quality and Health and Human Services today also committed an additional $3.5 million for water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

Free filters are available for current MDHHS clients at the 125 E. Union St. or 4809 Clio Road MDHHS office locations. For residents who are not currently enrolled in MDHHS assistance programs, free filters are available at the Genesee County Community Action Resource Department offices at 2727 Lippincott and 601 North Saginaw in Flint. Staff will be at all four locations from 9 a.m. to 4 p.m., Monday through Friday, to distribute filters and assist residents who have questions about proper installation. At the Lippincott location

only, extended hours will be offered this weekend, including until 7 p.m. on Thursday and Friday and from 10 a.m. to 2 p.m. on Saturday.

Other good practices for residents concerned about lead include turning on the cold water tap and running the water until it's as cold as it will go. Additionally, only use cold water for cooking, drinking and especially mixing baby formula.

School test results released; more investigation planned

The state today also released the first results from its lead screening program in schools and homes. Of 37 total samples taken at 13 buildings, four samples spread over three buildings exceeded the federal action level of 15 parts per billion.

However, this sampling provides only an initial screen, and the state is committing to further testing water and inspecting plumbing at these schools. Until testing is complete, schools are advised to continue using bottled water and filtration as a precaution to protect children.

In addition, free testing is still available for any other Flint school, including daycares and Head Starts. Free testing is also available for any Flint resident.

Additional information, including more detailed lead screening results, is available at www.michigan.gov/flintwater.

###

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 07, 2015 11:56 PM
To: 'Jason Lorenz'; Dayne Walling
Subject: RE: FW: Draft run of show and release

Thanks much to you both.

Below is latest version of release that works to incorporate and marry all of yours and Mott's comments, along with others. Believe we got all addressed.

Please review and make sure all good from your end.

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Holler if anything else needed at all between now and tomorrow morning. See you soon and thanks for all your help!

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###

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Wednesday, October 07, 2015 11:34 PM
To: Dayne Walling <dwalling@cityofflint.com>
Cc: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Re: FW: Draft run of show and release

Looks great, Sara. Tomorrow will surely be interesting.

On Oct 7, 2015 9:43 PM, "Dayne Walling" <dwalling@cityofflint.com> wrote:

> Thank you. Please do use Jason as the City public information officer and press contact. Release looks great!
>
> Couple things and my quote
>
> This sentence is not accurate: Flint city leaders requested the state's help to fund the reconnection after a Wednesday meeting of Flint's Technical Advisory Committee.
>
> I made my request to the Governor and COS on 10/2 and the Governor asked me about a funding arrangement prior to the advisory committee meeting.
>
> I think you could use a more general line such as: Flint city leaders requested the state's help to fund the reconnection and to assist with health and infrastructure issues.
>
> Then my quote:
> "Reconnecting to Detroit is the fastest way to deliver clean, safe water to Flint and stabilize the infrastructure system. I appreciate the State, the Mott Foundation, Detroit, and the County's participation in a solution for Flint's water problems. The health and safety of Flint's families, children and seniors is my top priority and reconnecting to Detroit is a major step that the City could not take alone given budget constraints."
>
> Finally, I have heard debate among the technical staff about the term optimized corrosion control. In particular, I understand that optimization actually takes place over time and Flint's system may not be optimized with the dosage of phosphate based corrosion control currently in the Detroit system, which is at a maintenance level.
> INstead of: Additionally, the Great Lakes Water Authority has already fully optimized its corrosion control
> Could say: Additionally, the Great Lakes Water Authority water already has additional corrosion control
>
> Nice working with you too and see you tomorrow
> Dayne

On Wed, Oct 7, 2015 at 7:53 PM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:

> Greetings Mayor and Jason –

Here is proposed run of show for tomorrow, along with the draft release. Again, per earlier conversations, highly confidential and not for sharing as dependent on final details getting worked out at tomorrow's 9 a.m. meeting.

On the release, please note in particular the placeholder for the Mayor's quote.

Please review and let us know of any edits or concerns you may have. We look forward to your feedback. If there's a chance you can get us the quote sometime yet this evening, that'd be fantastic.

Also, we'd like to put a city media contact here as well. Assuming that's Jason. Just wanted to verify which contact info should we use?

Thanks again. Glad to be working and collaborating with the city on this very challenging issue.

Best regards,

SW

Run of show & comment topics below:

9:45 AM – 10:00 AM Pre-Brief with all speakers

10:00 AM – 10:01 AM Harvey Hollins kicks off press conference; introduces Governor

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10:25 AM – 10:35 AM Q&A from the podium

10:35 AM Event concludes; Governor departs

Nature of comments:

RDS – Collaboration led to solution, outline of solution

Mayor Walling – Importance of solution to Flint

Dan Wyant – Overview of steps on transition from Flint River to DWSD, school testing results

Nick Lyon – DHHS involvement

Dr. Eden Wells – Testing of water going forward, use of filters approved by NSF

Ridgway White – Importance of collaboration/commitment to Flint

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Release:

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INSERT MAYOR QUOTE HERE

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However, reconnecting with the authority will not completely resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control. Additionally, some households in the city could experience lead in their drinking water until all lead pipes and plumbing are replaced.

INSERT MOTT FOUNDATION QUOTE HERE

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Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
810-766-7346
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

From: Wurfel, Sara (GOV)
Sent: Thursday, October 08, 2015 12:09 AM
To: Heaton, Anna (GOV)
Subject: Jason Lorenz - City of Flint
Attachments: Jason Lorenz - City of Flint.vcf; ATT00001.txt

Full Name:	Jason Lorenz - City of Flint
Last Name:	City of Flint
First Name:	Jason
Job Title:	Public Information Officer
Company:	City of Flint
Business:	(810) 237-2039
Mobile:	PPI
Primary Phone:	(810) 237-2039
E-mail:	jlorenz@cityofflint.com
E-mail Display As:	Jason Lorenz - City of Flint (jlorenz@cityofflint.com)

From: Wurfel, Sara (GOV)
Sent: Thursday, October 08, 2015 9:43 AM
To: David Eggert - AP; Mike Householder - AP
Subject: EMBARGOED info - Flint water

Importance: High

FULLY EMBARGOED until press conference starts.

RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
EXECUTIVE OFFICE
LANSING

BRIAN CALLEY
LT. GOVERNOR

CONTACTS:	FOR IMMEDIATE RELEASE
Sara Wurfel or Dave Murray Governor's Office: 517-335-6397 Brad Wurfel, 517-284-6713 Department of Environmental Quality Jennifer Eisner, 517-230-9804 Department of Health and Human Services Kathryn Thomas, 810-766-1734 Mott Foundation Jason Lorenz, 810-237-2039 City of Flint	Thursday, Oct. 8, 2015

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The move to Detroit water, which is expected to carry, carries many public health benefits. As large bodies of water, the Great Lakes are naturally prone to fewer problems from large rain events and other runoff issues that can sometimes be present in shallower rivers. Additionally, the Great Lakes Water Authority water already has additional corrosion control, using phosphates to help coat the insides of pipes and limit lead from leaching into the water.

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###

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov

517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Thursday, October 08, 2015 9:49 AM
To: John Roach - Mayor Duggan Office
Subject: Final Flint water release
Attachments: 151008 Flint water release_FINAL.docx

Importance: High

John –

Thanks for your call. Rich connected with Gary, yes?

All good?

Please just let me know if any last issues, concerns or Qs.

Thanks and best,
SW

RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
EXECUTIVE OFFICE
LANSING

BRIAN CALLEY
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Sara Wurfel or Dave Murray Governor's Office: 517-335-6397 Brad Wurfel, 517-284-6713 Department of Environmental Quality Jennifer Eisner, 517-230-9804 Department of Health and Human Services Kathryn Thomas, 810-766-1734 Mott Foundation Jason Lorenz, 810-237-2039 City of Flint	Thursday, Oct. 8, 2015

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###

From: Wurfel, Sara (GOV)
Sent: Thursday, October 08, 2015 1:28 PM
To: 'Serena Maria Daniels'
Subject: RE: Flint water press release?

You got OK earlier, yes?

Wil have our team double check that again and make sure we get distribution issues resolved.

From: Serena Maria Daniels [mailto:serenamaria36@gmail.com]
Sent: Thursday, October 08, 2015 10:18 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint water press release?

Morning,

I'm having connectivity issues with listening to the livestream regarding Flint water. Is there a press release you can send my way? Working on a story now for Reuters.

Also, I appear to not be getting press releases from the Governor's office. Can I please be added again?

Thanks,
Serena Maria Daniels
313-404-5809

From: Wurfel, Sara (GOV)
Sent: Thursday, October 08, 2015 1:31 PM
To: Weiss, Kurt (DTMB)
Subject: RE: Update from Nick's calls

Thx!

-----Original Message-----
From: Weiss, Kurt (DTMB)
Sent: Thursday, October 08, 2015 1:16 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: FW: Update from Nick's calls

Hi Sara,

I checked and doesn't look like you were copied on this, so sending it along.

Kurt Weiss
State Budget Office
517-335-0050

-----Original Message-----
From: Duncan, Nancy (DTMB)
Sent: Thursday, October 08, 2015 10:31 AM
To: Starr, Scott (DTMB); Weiss, Kurt (DTMB); McNeely, Jacques (DTMB); Fosdick, David (DTMB); Kimmith, Dean (DTMB)
Subject: FW: Update from Nick's calls

Keeping you in the loop.

-----Original Message-----
From: Lasher, Geralyn (DHHS)
Sent: Thursday, October 08, 2015 9:32 AM
To: Hanley, Farah (DHHS); Becker, Timothy (DHHS); Grijalva, Nancy (DHHS); Roberts, John (DTMB); Wyant, Dan (DEQ); Duncan, Nancy (DTMB); Harkins, Chris (DTMB); Pallone, Maggie (DEQ); Hertel, Elizabeth (DHHS); Ruest, Karla (DHHS)
Cc: Lyon, Nick (DHHS)
Subject: Update from Nick's calls

Nick has put in calls to our subcommittee chairs and wanted to pass along the feedback he got.

All agree from the health side that the DHHS action is the right way to move forward. However they had some negative feedback on the $6 million.

--Representatives MacGregor and Poleski both feel this should be a loan to the City of Flint instead of direct payment of $6 million

--Senator Marleau complained about the lack of legislative input before the decision was made to switch back to Flint water from Detroit in the first place.

He left messages for Verheulen, Santana, Shirkey and Hertel.

Sent from my iPad

From: Wurfel, Sara (GOV)
Sent: Thursday, October 08, 2015 1:56 PM
To: 'Danziger, Rona'; Biehl, Laura (GOV)
Cc: Huber, Zahra; Davidek, Robert P; Mundie, Robert R
Subject: RE: Looking for comment

Greetings, Rona --

Just got back from Flint. Various versions of this Q came up during today's presser. I would recommend you take a listen. http://www.michigan.gov/snyder/0,4668,7-277-60112-268720--,00.html

State was following all nationally set standards and protocols for testing, and has some of the most dedicated and professional drinking water and public health experts in the country working off the best information available at the time. We have acted quickly and took detailed concrete actions steps as new information and data came in.

From: Danziger, Rona [mailto:rona.danziger@cbsradio.com]
Sent: Thursday, October 08, 2015 12:19 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>
Cc: Huber, Zahra <zahra.huber@cbsradio.com>; Davidek, Robert P <rpdavidek@cbs.com>; Mundie, Robert R <rrmundie@cbs.com>
Subject: Looking for comment

WWJ's Zahra Huber spoke with Professor Marc Edwards from Virginia Tech regarding his thoughts on the Flint Water situation as the lead researcher on the project and he had very harsh words about how the Flint Water situation had been handled. He said federal laws had been broken when the switch was made away from the Detroit River to the Flint River and that data was manipulated to show that Flint water was safe when it was not. Can we get a comment from the Governor on this interview? I've attached the audio, uncut, for you to listen to for comment.

Let us know. Thanks!

Rona Danziger
Senior Managing Editor |WWJ Newsradio 950|Michigan News Network
Direct: 248-327-2820| PPI |Newsroom: 248-945-9950
26455 American Drive | Southfield, MI 48034
Rona.danziger@cbsradio.com
www.cbsdetroit.com

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If you no longer wish to receive commercial email from this Station, please reply to this email by sending a reply email by clicking on the "reply" button at the top of this page or by sending an email to rona.danziger@cbsradio.com insert this message into the reply email. "Please remove me from your commercial email list." You must use this method to notify WWJ of your opt-out request, as we cannot guarantee that other methods of notification will be effective. Please be aware that we may continue to contact you via email for administrative or informational purposes, including follow-up messages regarding contests you have entered or other transactions you have undertaken. By law, such messages are not considered to be commercial email.

From: Wurfel, Sara (GOV)
Sent: Thursday, October 08, 2015 2:01 PM
To: Brown, Jessica (GOV); Biehl, Laura (GOV)
Subject: RE: Flint water press release?

Great – thx much

From: Brown, Jessica (GOV)
Sent: Thursday, October 08, 2015 1:36 PM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>
Subject: RE: Flint water press release?

She was on the list already – wondering if it was a potential spam folder problem. I tried taking her off and then putting her back on. If she says she still has problems let me know and we can call GD.

From: Brown, Jessica (GOV)
Sent: Thursday, October 08, 2015 1:32 PM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>
Subject: RE: Flint water press release?

Will do.

From: Wurfel, Sara (GOV)
Sent: Thursday, October 08, 2015 1:29 PM
To: Biehl, Laura (GOV) <BiehlL@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>
Subject: FW: Flint water press release?

Guys – can you please check into this. Serena was at Detroit News, but now does freelance, primarily for Reuters.

Please make sure she's on our media list and database.

From: Serena Maria Daniels [mailto:serenamaria36@gmail.com]
Sent: Thursday, October 08, 2015 10:18 AM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>
Subject: Flint water press release?

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313-404-5809

From: Wurfel, Sara (GOV)
Sent: Thursday, October 08, 2015 2:03 PM
To: 'Serena Maria Daniels'
Subject: RE: Flint water press release?

Serena –

Our teams tells me and your gmail address were indeed on our distribution list and that the message was delivered – wondering if it was a potential spam folder problem. Just in case, they tried taking you off and then putting you back on. If you still have any problems, pls let me know and we can call the vendor.

Thx much,
SW

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From: Wurfel, Sara (GOV)
Sent: Thursday, October 08, 2015 3:11 PM
To: 'Jonathan Oosting'; Murray, David (GOV)
Subject: RE: State funding for Flint

Hi there Jonathan,

Sorry for delay. Been in back-to-back meetings since getting back from Flint.

Happy to walk you through this, but sounds like Kurt already did? Just let me know.

Thanks much,
SW

From: Jonathan Oosting [mailto:joosting@mlive.com]
Sent: Thursday, October 08, 2015 12:30 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: State funding for Flint

Hi Sara and Dave

Is the governor asking for a total of $6 million from the Legislature (for water switch) or $10 million (plus other action plan costs)? I was a little confused by descriptions in press conference and release.

Jonathan Oosting | MLive Media Group | 313.319.8559 | joosting@mlive.com

From: Wurfel, Sara (GOV)
Sent: Thursday, October 08, 2015 3:40 PM
To: Jonathan Oosting
Subject: Re: State funding for Flint

Great to hear -

Sent from my iPhone

On Oct 8, 2015, at 3:12 PM, Jonathan Oosting <joosting@mlive.com> wrote:

> Yep, I just talked with Kurt. Thank you!
>
> Jonathan Oosting | MLive Media Group | 313.319.8559 | joosting@mlive.com

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From: <Wurfel>, "Sara (GOV)" <Wurfels@michigan.gov>
Date: Thursday, October 8, 2015 at 3:11 PM
To: Conde Nast <JOosting@MLive.com>, "Murray, David (GOV)" <MurrayD1@michigan.gov>
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From: Wurfel, Sara (GOV)
Sent: Thursday, October 08, 2015 4:54 PM
To: 'Gary Ridley'
Subject: RE: Snyder plan for Flint water

Hi there Gary –

What I'd say is that … in combination with the other short term, intermediate term and long-term steps outlined last week, this move represents a big step forward and demonstrates the Governor and Administration's deep commitment to protecting public health and ensuring safe, accessible water. We're focused on helping address this challenging issue for the residents of Flint, partnering with the city and collaborating across local, state and federal levels to bring all resources and ideas to bear.

Hope that helps.

Thanks and best,
SW

From: Gary Ridley [mailto:GRIDLEY@mlive.com]
Sent: Thursday, October 08, 2015 3:20 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Snyder plan for Flint water

Sara,
I am working on a follow-up story to today's Flint water announcement and I was hoping you could help me out. I am focusing on what comes next for the people of Flint. I was wondering if the governor's office would comment on what needs to be done to get residents to trust their water system and elected leaders again.

My deadline is noon Friday.

Thanks for the assistance.

--
Gary Ridley | The Flint Journal-MLive Media Group | 810-280-9516 | gridley@mlive.com

From: Wurfel, Sara (GOV)
Sent: Monday, October 12, 2015 2:15 PM
To: Wyant, Dan (DEQ); Pallone, Maggie (DEQ); Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ)
Subject: FW: Comment sought on Rep. Phelps Files Suit Against State of Michigan, City of Flint
Attachments: Phelps_Verified FOIA Complaint.pdf

Need to make sure I understand the full background and story on this.

From: Gary Ridley [mailto:GRIDLEY@mlive.com]
Sent: Monday, October 12, 2015 1:39 PM
To: Bitely, Andrea (AG) <BitelyA@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Comment sought on Rep. Phelps Files Suit Against State of Michigan, City of Flint

Hi,
I wanted to see if the state had any comment in response to this lawsuit.

Thanks.

--
Gary Ridley | The Flint Journal-MLive Media Group | 810-280-9516 | gridley@mlive.com

---

From: Rosemary Jones [mailto:RJones@house.mi.gov]
Sent: Monday, October 12, 2015 1:33 PM
To: Rosemary Jones
Subject: Rep. Phelps Files Suit Against State of Michigan, City of Flint

FOR IMMEDIATE RELEASE
Monday, Oct. 12, 2015

Contact: Rep. Phil Phelps
Phone: (517) 373-7515

Rep. Phelps Files Suit Against State of Michigan, City of Flint

State, city failed to release documents sought in FOIA request

LANSING — State Representative **Phil Phelps** (D-Flushing) announced earlier today that he is filing suit against the state of Michigan and the city of Flint to force them to release public documents he requested last month under the Freedom of Information Act (FOIA).

"It's an absolute shame that I have to file suit to force our government to comply with the law," Phelps said. "I was shocked at their response, because prior to receiving the denials, officials from both the city and state had told me that not only did documents exist, but they would be happy to share them with me."

On Sept. 4 of this year, Phelps requested that the city and state turn over all documents and emails regarding the permit and application process that Flint's emergency manager was required to complete before the Michigan Department of Environmental Quality gave the go ahead to the city to start using the Flint River as its source of drinking water. Late last month, the state and the city both denied Phelps' request, saying that no such documents exist.

In March and April of 2014, officials from both the city and state were also quoted in several articles on Mlive.com, making comments about the permit application process for Flint to switch its source of drinking water from Detroit's system to the Flint River.

"I want to know what these officials knew about the safety and quality of the river water before the switch was made. Judging by their response and recent actions, it almost seems they knew a lot more than they are letting on to," Phelps said. "Flint residents deserve better than this, they deserve to know the truth about the decisions that were made, and if I have to fight this in court to get the truth, so be it."

###

Rosie Jones
Deputy Press Secretary
Michigan House Democrats
O: 517.373.3731
C: PPI
housedems.com

STATE OF MICHIGAN
IN THE CIRCUIT COURT FOR THE COUNTY GENESEE

PHIL PHELPS,

Plaintiff,

v

CITY OF FLINT,

Defendant.

Case No.
Hon.

MILLER COHEN, P.L.C.
Keith D. Flynn (P74192)
Attorneys for Plaintiff
600 W. Lafayette, 4th Fl.
Detroit, MI 48226
(313) 964-4454 Phone
kflynn@millercohen.com

VERIFIED FREEDOM OF INFORMATION ACT COMPLAINT

There is no other pending or resolved civil action arising out of the transaction or occurrence alleged in the Complaint against Defendant.

Keith D. Flynn

Plaintiff **PHIL PHELPS**, ("Plaintiff"), by and through his attorneys, **MILLER COHEN, P.L.C.**, for his Freedom of Information Act Complaint, states as follows:

Since Spring 2014, families in the City of Flint have been exposed to a significant threat to their health and well-being caused by the decision to switch the City's water supply from Lake Huron water to Flint River water. This decision was made by the State's appointed Emergency Manager in the name of saving money. In the process, the health and welfare of Flint residents has been carelessly jeopardized with thousands of residents being exposed to contaminants, including E.coli, disinfectant byproduct, and, most recently, lead.

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This threat is the very reason why the Michigan Department of Environmental Quality (DEQ) exists—to protect the public by insisting upon compliance with federal and state environmental regulations. The DEQ is supposed to work with suppliers of water, such as the City of Flint, and approve or reject applications for permits to alter existing water systems, including changes that are made to the source of water. MCL § 325.1004(6). Part of this process requires localities to provide the DEQ with detailed technical information evaluating any impact that proposed alterations might have on the quality of water provided to the public. *Id.*

State Representative Phil Phelps issued information requests under the Freedom of Information Act (FOIA) to the Department of Environmental Quality (DEQ), the Michigan Department of Treasury, and the City of Flint. Representative Phelps wants to see if the State and City knew in advance about the potential hazards now faced by Flint residents. He wants to see what had been done to avoid this disaster. He requests documents concerning evaluations of the quality of water in the Flint River, documents specifically pertaining to the application and permit process, and other documents relating to the change in the City's water source.

In public statements, State and City officials have discussed documents addressing the change from Detroit to Flint River water as Flint's primary source of water. However, in response to Representative Phelps' FOIA requests, they now deny that such documents exist. The cleanliness of the water is a critical health and safety issue, which must be revealed to the public. The Defendants cannot make public assurances of the existence of documents, only to refuse to turn those documents over.

As a result, Representative Phelps is now forced to file this action, along with another action in the Michigan Court of Claims, seeking to disclose information that the public has the right to know. For those reasons, Plaintiff Phelps seeks an Order from this Court requiring the City to respond to Plaintiff's FOIA requests and seeking costs and attorney fees for having to file this action.

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PARTIES, JURISDICTION, AND VENUE

1. This matter arises under the Michigan Freedom of Information Act, MCL § 15.231, *et seq.* ("FOIA").

2. Plaintiff Phil Phelps is the elected State Representative for the 49th State House District. His District includes part of the City of Flint.

3. Defendant City of Flint is a public body as defined in MCL §15.232(d) having custody and control of public records. The City of Flint constitutes a supplier of water for the purposes of the Michigan Safe Drinking Water Act, MCL §325.1001 *et seq.*

4. This Court has jurisdiction over the subject matter of this complaint and venue is proper in this county, pursuant to MCL §15.240(4).

GENERAL ALLEGATIONS

5. Plaintiff incorporates herein by reference each of the preceding paragraphs.

6. Pursuant to MCL § 15.233, Plaintiff, as a member of the public, has the right to inspect, copy, or receive copies of public records of a public body, including records of the City of Flint.

7. For almost fifty years, the City of Flint purchased Lake Huron water from the Detroit Water and Sewerage Department ("DWSD").

8. On June 28, 2013, ground was broken by the Karegnondi Water Authority ("KWA") to build a pipeline to distribute Lake Huron water throughout Genesee County without DWSD.

9. Construction of the pipeline is set to be completed in late 2016.

10. Every community in Genesee County remained with DWSD during the construction of the pipeline with the exception of the City of Flint.

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11. Darnell Earley, the Emergency Manger appointed to the City of Flint by Governor Richard Snyder under the Local Financial Stability and Choice Act, MCL §141.1541 *et seq.*, implemented the switch from DWSD water to the Flint River that took place on April 25, 2014.

THE DECISION TO SWITCH FROM DWSD WATER TO FLINT RIVER WATER

12. Prior to switching from DWSD to Flint River water, the City of Flint, in conjunction with the Michigan Department of Environmental Quality and the Michigan Department of Treasury engaged in a process to evaluate the potential of using the Flint River as Flint's primary source of water. (*Exhibit A*, 91-95)

13. Gerald Ambrose, the financial advisor to the emergency manager for the City of Flint at the time, testified that: "There was brief evaluation of whether the City would be better off to simply use the Flint River as its primary source of water over the long term. That was determined not to be feasible." (Id. at 91)

14. Mr. Ambrose went on to testify that the determination that it was not feasible was made by "the emergency management team based on conversations with the MDEQ that indicated they would not be supportive of the use of the Flint River on a long-term basis as a primary source of water." (Id.)

15. Mr. Ambrose also testified in regards to an independent study that was conducted by the State Department of Treasury as to the feasibility of changing the source of water to the Flint River. (Id. at 93-94)

16. Notwithstanding this evaluation, the City of Flint decided to move forward with changing the source of its drinking water to the Flint River until the KWA pipeline was finished.

17. In order to do so, however, the City of Flint was required by the Safe Drinking Water Act to apply for a permit to change the source of water:

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> (6) Before commencing the construction of a waterworks system or an alteration, addition, or improvement to a system, a supplier of water shall submit the plans and specifications for the improvements to the department and secure from the department a permit for construction as provided by rule. Plans and specifications submitted to the department shall be prepared by a professional engineer licensed under article 20 of the occupational code, 1980 PA 299, MCL 339.2001 to 339.2014. A contractor, builder, or supplier of water shall not engage in or begin the construction of a waterworks system or an alteration, addition, or improvement to a waterworks system until a valid permit for the construction has been secured from the department. A contractor, builder, or supplier of water who permits or allows construction to proceed without a valid permit, or in a manner not in accordance with the plans and specifications approved by the department, violates this act. A supplier of water shall not issue a voucher or check or in any other way expend money or provide consideration for construction of a waterworks system unless a valid permit issued by the department is in effect. The department may issue a permit with conditions to correct minor design deficiencies. If eligible, a supplier may request an expedited review of an application for a permit under section 4a.

MCL § 325.1004(6).

18. The Safe Drinking Water Act provides that the DEQ administers the Act and promulgates administrative rules to enforce its requirements. One of those administrative rules defines "alteration" to include "modification of, or addition to, an existing waterworks system, or portion of the system, that affects . . . the source . . . ." Admin. Rule 325.10102.

19. On the DEQ's website, the DEQ provides the application discussed above. (*Exhibit B*)

20. The application requires the submission of highly technical plans and analysis for the alteration of the Water System. (Id.)

21. Failure of a "supplier of water"—which include municipalities—to apply and receive a permit prior to alteration of a Water System violates the Act punishable by a fine of not more than $5,000.00 for each day of violation, or by imprisonment for not more than 1 year, or both. MCL § 325.1021.

22. Prior to switching to the Flint River, it was reported that the City was in the process of applying for such a permit. (*Exhibit C*)

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23. On March 28, 2014, it was reported that the Michigan Department of Environmental Quality halted the City's attempt to move forward with the switch in water source without receiving the permit. (Id.) Steve Busch, the Lansing and Jackson district supervisor for the DEQ, noted that the DEQ had only received "preliminary design plans and preliminary specifications" that the agency had commented on. (Id.)

24. Howard Croft, Flint's Director of Public Works, denied the inadequacy of the plans provided noting that the City had provided "A fully engineered construction package, including all the work to be performed." (Id.) He went on to note that, "The submittal package has been under review for more than 30 days. The city has had ongoing discussions with the DEQ regarding the process and we anticipate a favorable response soon." (Id.)

25. On April 5, 2014, Emergency Manager Earley stated that the final application for the permit was filed with the DEQ noting that "We expect to have the permit early next week." (*Exhibit D*)

26. Sure enough, the very next week, the spokesman for the Department of Environmental Quality (DEQ), Brad Wurfel, was reported on April 10, 2014 as saying that the DEQ issued "a series of construction permits" noting that "They are racing to get all this work done." (*Exhibit E*)

27. The switch to Flint River water took place on April 25, 2014. (*Exhibit F*)

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RESIDENTS OF FLINT ARE EXPOSED TO CONTAMINANTS AFTER THE SWITCH TO FLINT RIVER WATER

28. Since switching to Flint River water, Flint residents have been placed in jeopardy being exposed to substantial threats to their health and safety due to contaminants found in their drinking water.

29. On August 14, 2014, the water tested positive for fecal coliform bacteria, E.coli, leading the City to issue a boil water advisory. (*Exhibit G*)

30. The water once again tested positive on August 19, 2014 with boil water advisories extending into late September 2014. (*Exhibit H*)

31. On January 2, 2015, a new threat to public health and safety was identified. In an effort to eliminate the bacteria, the City increased the chlorine used in the System. Residents began complaining that the water was causing skin rashes and their hair falling out. (*Exhibit I*)

32. Then, on January 2, 2015, the City of Flint officially announced that the level of trihalomethanes (TTHMs)—a byproduct of disinfectant—was higher than the allowable amount provided for in federal law forcing the City to provide notice to residents. (*Exhibit J*)

33. Long term exposure to TTHMs can create liver, kidney, or central nervous system problems, and may increase the risk of cancer, especially amongst those who have severely compromised immune systems such as infants or the elderly. (Id.)

34. Over nine months later, the City was finally able to reduce TTHM levels to the federal limit. (*Exhibit K*)

35. Most recently, in July 2015, Virginia Tech University researchers released the results of their own independent study of Flint's water supply revealing incredibly high amounts of lead far exceeding the allowable limitations of lead content under federal law. (*Exhibit L*)

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36. On September 2, 2015, the researchers at Virginia Tech released another study that compared the DWSD water to the Flint River water (*Exhibit L*) That study concluded that the natural corrosive properties of Flint River water is leaching lead from the City's aging infrastructure. (*Exhibit L*)

37. On September 24, 2015, the results of a subsequent study by Dr. Mona Hanna-Attisha, program director for the pediatric residency at the Hurley Children's Hospital at Hurley Medical Center in Flint were released finding an elevated level of lead in the blood samples of Flint children. (*Exhibit M*) Specifically, the study showed that the number of children in the City with elevated blood levels nearly doubled after the city started using the river. (Id.)

38. According to Dr. Hanna-Attisha: "What we found in our data is concerning." (Id.) Dr. Hanna-Attisha noted that "This is not something you mess around with." (Id.)

REPRESENTATIVE PHELPS SEEKS DOCUMENTS RELATING TO CHANGING THE CITY'S SOURCE OF WATER TO THE FLINT RIVER AND THE CITY AND STATE FAILED TO COMPLY

39. In response to this health crisis, Representative Phelps requested the following records from the Michigan Department of Environmental Quality, the Michigan Department of Treasury, and the City of Flint pursuant to FOIA on September 4, 2015:

1. All documents the [City of Flint/Michigan Department of Treasury/Michigan Department of Environmental Quality], or its agents, has in its possession, including correspondence, related to any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.
2. All documents the [City of Flint/Michigan Department of Treasury/Michigan Department of Environmental Quality], or its agents, has in its possession, including correspondence, related to any communications between the Michigan Department of Environmental Quality, or its agents, and/or the Michigan Department of Treasury, or its agents, regarding any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.

3. All documents the [City of Flint/Michigan Department of Treasury/Michigan Department of Environmental Quality] has in its possess, including correspondence, related to any communications between the [City of Flint of Treasury/Michigan Department of Treasury/Michigan Department of Environmental Quality], or its agents, and the Office of the Governor of the State of Michigan, or its agents, regarding any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.

(*Exhibit N*)

40. On September 4th, Representative Phelps had a face-to-face conversation with Howard Croft, Flint's Director of Public Works, at the Flint City Hall beginning shortly after 3:00pm and ending around 4:20pm. Representative Sheldon Neeley was also present during the meeting.

41. Both Representative Phelps and Neeley asked several questions regarding the switch to Flint River water, the permits and applications surrounding the switch, potential hold ups/delays in the switch due to DEQ's approval process, and correspondence between the City of Flint and the DEQ regarding all of the previous items.

42. Howard Croft said that they did in fact have documents related to those topics and stated that it would be no problem to share them with both Representatives.

43. On September 14, 2015, the City of Flint changed its story. In the City of Flint's formal response to Representative Phelps' FOIA requests dated September 14, 2015, the City has refused to provide those documents. (*Exhibit O*)

44. Contradicting Mr. Croft's earlier assertions as well as statements made to the press in 2014, the City of Flint asserted that no such documents exist:

> The records which you have requested do not exist under the name given by the requester or by another name reasonably known to this public body or are not retained by this public body in the performance of an official functions. This is a certification of their non-existence. No Records—Requested documents do not exist.

(Id.)

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45. The DEQ responded on or about September 16th by telephone indicating that it was DEQ policy to provide copies of documents to members of the State Legislature free of charge and noting that there were several documents that would be sent over to Representative Phelps' office via email, but only if he withdrew his FOIA request.

46. Representative Phelps indicated that he had to contact his attorney to discuss whether he should withdraw the FOIA requests. Since that day, Representative has not received any verbal communication with the DEQ.

47. On September 28, 2015, after Representative Phelps refused to withdraw his FOIA request, the DEQ changed its tone like the City of Flint. (*Exhibit P*)

48. Brad Wurfel, the spokesman for the DEQ stated in an interview with Gongwer that "Flint did not have to file an application because the City has always listed the Flint River as its back-up should it need it for a water supply." (*Exhibit Q*)

49. Obviously, Mr. Wurfel's most recent statement ignores the statements that he, and others, made to the media prior to the switch. They all maintained that Flint was required to file an application for a permit with the DEQ and did in fact file an application that was ultimately approved by the DEQ on or about April 10, 2014.

50. Nonetheless, Mr. Wurfel indicated during that interview that "other documents . . . are available—to Mr. Phelps or anyone—dealing with the process the city and state took preparing for the switch." (Id.) To date, Representative Phelps has not received these other documents.

51. Similarly, the Michigan Department of Treasury denied Representative Phelps' FOIA request on the same grounds as the City of Flint and the DEQ on September 29, 2015. (*Exhibit R*)

52. To date, Representative Phelps' has not received the documents that he requested.

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53. The public has a right to know the degree to which the State knew about or took any action to determine the potential hazards of making this switch, prior to the decision being implemented by the State-appointed Emergency Manager. It is for that reason that Representative Phil Phelps brings this suit to compel the City of Flint to provide the documents requested pursuant to FOIA.

COUNT I

VIOLATION OF THE FREEDOM OF INFORMATION ACT

54. Plaintiff incorporates herein by reference each of the preceding paragraphs.

55. Documents, such as correspondence and communications, relating to any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity constitute public records subject to FOIA.

56. Plaintiff reasonably described the documents that he was seeking.

57. No exemption recognized under FOIA applies to Representative Phelps' requests.

58. The Defendant's denial is wholly without merit as acknowledged by the Defendant's own agents in the past. Defendant failed to perform a good faith effort to conduct a search for the requested records using methods reasonably expected to produce the requested information.

59. Hence, Defendant violated the FOIA, and for the violation, the Defendant should face all fines, costs and fees as pursuant to the FOIA statute, as well as be ordered to immediately tender the information.

60. Due to the Defendant's refusal to respond to the FOIA requests, the Defendant now bears the burden to sustain the reason for its denial. MCL §15.240(4).

61. MCL § 15.240(5) provides that actions commenced pursuant to FOIA "shall be assigned for hearing and trial and for argument at the earliest practicable date and expedited in every way.

WHEREFORE, and for the above-stated reasons, Plaintiff requests that this Honorable Court grant the following relief:

a. Order an expedited hearing as required by MCL § 15.240(5);

b. Order that the Defendant to immediately respond to the FOIA requests of Plaintiff as found in the *Exhibit N* letters;

c. Find that the Defendant made a final determination to deny the FOIA requests, and such determination was in violation of the FOIA and arbitrary and capricious. Thus, Order that the Defendant pay to Plaintiff reasonable attorney's fees, costs and disbursements, and order punitive damages of $5.00;

d. Award all other relief as this Court deems appropriate.

Respectfully submitted,

MILLER COHEN, P.L.C.

By: _____

Keith D. Flynn (P74192)
Attorneys for Plaintiff
600 W. Lafayette, 4th Fl.
Detroit, MI 48226
(313) 964-4454

Dated: October 12, 2015

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VERIFICATION OF THE COMPLAINT

I, Phil Phelps, being first duly sworn, deposes and says that he is authorized to verify this Complaint, that he has read the complaint and based on his knowledge it is true as to its facts and he believes it is true as to its conclusions, to the best of his knowledge and belief.

Dated: _____ _____

PHIL PHELPS

Subscribed and sworn to before me on
this ___ day of October, 2015

_____
_____, Notary Public
_____ County, MI
Acting in _____ County, MI
My Commission expires: _____

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EXHIBIT A

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF MICHIGAN

JOHN WELCH, JUDITH WELCH, KENNETH SPARKS, JR., CAROL SPARKS, SHERRY MURPHY, AND MARK FULKS ON BEHALF OF THEMSELVES AND ALL OTHERS SIMILARLY SITUATED, AND UNITED RETIRED GOVERNMENTAL EMPLOYEES (URGE), A MICHIGAN NONPROFIT CORPORATION,

Plaintiffs,

CASE NO: 2:12-cv-13808-AJT-MKM

vs

HON. ARTHUR J. TARNOW

MICHAEL BROWN, INDIVIDUALLY AND IN HIS OFFICIAL CAPACITY AS EMERGENCY MANAGER OF THE CITY OF FLINT, EDWARD KURTZ, INDIVIDUALLY AND IN HIS OFFICIAL CAPACITY AS EMERGENCY MANAGER OF THE CITY OF FLINT, ROBERT ERLENBECK, INDIVIDUALLY AND IN HIS OFFICIAL CAPACITY AS MANGER FOR THE CITY OF FLINT RETIREMENT OFFICE, GERALD AMBROSE, INDIVIDUALLY AND IN HIS OFFICIAL CAPACITY AS CITY OF FLINT FINANCE DIRECTOR, AND THE CITY OF FLINT,

Defendants.
_____/

The Deposition of GERALD AMBROSE, taken before me, Claudia M. Weekly, CSR-2963, on Tuesday, May 20, 2014, at 1101 South Saginaw Street, 2nd Floor Conference Room, Flint, Michigan, commencing at or about 10:17 A.M.

talking about, are you referring to the cost of the City's participation in the pipeline?

Q Both.

A I had no direct involvement in any discussions relating to the actual cost estimates for the construction of the pipeline. I was, however, involved in doing the analysis of the cost benefit to the City of participating in the Karegnondi Water Authority as compared to continuing to receive, to purchase water from the Detroit Water and Sewer System.

Q Were any other options -- did you look at any other options apart from those two or variations of those two?

A There was brief evaluation of whether the City would be better off to simply use the Flint River as its primary source of water over the long term. That was determined not to be feasible.

Q Who determined that it wasn't feasible?

A It was a collective decision of the emergency management team based on conversations with the MDEQ that indicated they would not be supportive of the use of the Flint River on a long-term basis as a primary source of water.

Q What was the reason that they gave?

A You'll have to ask them.

Q Okay. You don't recall?

A I do not recall.

Q Now, am I correct in that is actually what is happening now, for at least a short-term --

A That's correct.

Q -- the City of Flint is using its own facilities and supplying its own water through the Flint River?

A That is correct.

Q When was the possibility of using that as a long-term solution abandoned?

MR. WARREN: Do you mean the Flint River?

MR. ALEC GIBBS: Yes.

THE WITNESS: Probably sometime in FY13. I don't recall specifically.

MR. BADE: I'm just going to object to the form of the question. Abandoned by whom?

Q (BY MR. ALEC GIBBS) By the collective body that was responsible for making the ultimate decision by the City of Flint, I assume. Sometime in fiscal year 2013?

A Sometime between -- I guess sometime probably during '13, I believe, or perhaps even midway through '12.

Q Okay.

A I don't recall the specific dates.

Q But it was based on communications from the Michigan Department of Environmental Quality.

MR. WARREN: Objection; asked and answered. You can answer.

THE WITNESS: It was based on information that we received from others within the City who said that MDEQ was not supportive of a long-term use of the Flint River.

Q (BY MR. ALEC GIBBS) Who are the City of Flint sources who communicated the Michigan Department of Environmental Quality's position?

MR. WARREN: Object to lack of foundation. You can answer.

THE WITNESS: I believe it was our utilities administrator, our public works director.

Q (BY MR. ALEC GIBBS) And who are those individuals?

A Howard Croft, Daugherty Johnson.

Q Are you aware of an independent study on the feasibility of alternative plans for water supply for the City of Flint that was commissioned by the Department of Treasury?

MR. WARREN: I'm going to object to relevance. We're getting really far afield here. I'm not directing him not to answer, but hopefully this can be tied up very quickly and we can all move on.

Q (BY MR. ALEC GIBBS) I'm just asking if you're aware of the study.

A Tell me what the name of the study is.

Q I have it here. Mark this as Exhibit 5.

(Exhibit Number 5 was marked.)

Q (BY MR. ALEC GIBBS) Do you recognize this study?

A I do not recall seeing this actual document, but I am aware of the study.

Q Okay. Do you remember when this study was commissioned?

A I don't know. Apparently it was completed in February of 2013.

Q The study makes reference to a number of meetings between the City of Flint and the Department of Treasury concerning the investigation into water supply options for the City of Flint. Did you participate in any of those meetings?

A I did.

Q What meetings do you recall participating in?

A I recall one or two meetings in Lansing. I don't remember when.

Q Do you remember if one of those meetings took place in December of 2012?

A I do not recall the date.

Q Do you remember who participated in these meetings?

A I do not recall. I was in attendance with the emergency manager then Michael Brown, as I recall, or Ed Kurtz. I honestly do not recall the dates and the timing.

Q Okay. There is a reference to, if you look to Page 2 of the study, it says although it appeared that this was

a -- it references an option for the Flint water treatment plant to supply the City of Flint without being supplied from either DWSD or KWA was initially considered. The preliminary investigation evaluated the cost associated with the required improvements to the plant and the Flint River dam system. And that although it appeared that this was a viable option, Flint, in a meeting on December 20th, 2012 with the treasury, stated that the City did not want to pursue that option and it is no longer being considered.

Do you recall that being discussed in one of those meetings you referred to earlier?

A No. But that's consistent with the decision that we reached.

Q You indicated that you did participate in some of the evaluations of the cost projections at least as it concerned Flint's contribution to the pipeline.

A Flint's participation in the pipeline, yes.

Q Okay. Well, what is your understanding of what Flint's annual contributions will be over the term of years for the loan bond amounts? In other words, what are Flint's debt service payments relative to the pipeline construction going to be on an annual basis?

A The debt service only?

Q And any payments associated with the pipeline

EXHIBIT B

PERMIT APPLICATION FOR WATER SUPPLY SYSTEMS

(CONSTRUCTION - ALTERATION - ADDITION OR IMPROVEMENT) AS DESCRIBED HEREIN

Required under the Authority of 1976 PA 399, as amended

This application becomes an Act 399 Permit only when signed and issued by authorized Michigan Department of Environmental Quality (DEQ) Staff. See instructions below for completion of this application.

Municipality or Organization, Address and WSSN that will own or control the water facilities to be constructed. This permit is to be issued to: **WSSN**:	Permit Stamp Area (DEQ use only)	
Owner's Contact Person (provide name for questions): Contact: Title: Phone:		
Project Name (Provide phase number if project is segmented):	4. **Project Location** (City, Village, Township):	5. **County** (location of proje

ISSUED UNDER THE AUTHORITY OF THE DIRECTOR OF THE DEPARTMENT OF ENVIRONMENT QUALITY

cc:

Issued by: _____

Reviewed by: _____

☐ **If this box is marked see attached special conditions.**

Instructions: Complete items 1 through 5 above and 6 through 21 on the following pages of this application. Print or typ all information except for signatures. Mail completed application, plans and specifications, and any attachments to the DE District Office having jurisdiction in the area of the proposed construction.

Please Note:

a. This **PERMIT** only authorizes the construction, alteration, addition or improvement of the water system described herein and is issued solely under the authority of 1976 PA 399, as amended.
b. The issuance of this **PERMIT** does not authorize violation of any federal, state or local laws or regulations, nor doe it obviate the necessity of obtaining such permits, including any other DEQ permits, or approvals from other units c government as may be required by law.
c. This **PERMIT** expires two (2) years after the date of issuance in accordance with R 325.11306, 1976 PA 399, administrative rules, unless construction has been initiated prior to expiration.
d. Noncompliance with the conditions of this permit and the requirements of the Act constitutes a violation of the Act.
e. Applicant must give notice to public utilities in accordance with 1974 PA 53, (MISS DIG), being Section 460.701 to 460.718 of the Michigan Compiled Laws, and comply with each of the requirements of that Act.
f. All earth changing activities must be conducted in accordance with the requirements of the Soil Erosion and Sedimentation Control Act, Part 91, 1994 PA 451, as amended.
g. All construction activity impacting wetlands must be conducted in accordance with the Wetland Protection Act, Par 303, 1994 PA 451, as amended.
h. Intentionally providing false information in this application constitutes fraud which is punishable by fine and/or imprisonment.
i. Where applicable for water withdrawals, the issuance of this permit indicates compliance with the requirements of Part 327 of Act 451, Great Lakes Preservation Act.

Facilities Description – In the space below provide a detailed description of the proposed project. Applications without adequate facilities descriptions **will be returned**. SEE EXAMPLES BELOW. Use additional sheets if needed.

EXAMPLES – EXAMPLES – EXAMPLES – EXAMPLES – EXAMPLES – EXAMPLES

Water Mains	500 feet of 8-inch water main in First Street from Main Street north to State Street. **OR** 250 feet of 12-inch water main in Clark Road from an existing 8-inch main in Third Avenue north to a hydrant.
Booster Stations	A booster station located at the southwest corner of Third Avenue and Main Street, and equipped with two, 15 Hp pumps each rated 150 gpm @ 200 feet TDH. Station includes backup power and all other equipment as required for proper operation.
Elevated Storage Tank	A 300,000 gallon elevated storage tank located in City Park. The proposed tank shall be spherical, all welded construction and supported on a single pedestal. The tank shall be 150 feet in height, 40 feet in diameter with a normal operating range of 130 – 145 feet. The interior coating system shall be ANSI/NSF Standard 61 approved or equivalent. The tank will be equipped with a cathodic protection system, and includes a tank level control system with telemetry.
Chemical Feed	A positive displacement chemical feed pump, rated at 24 gpd @ 110 psi to apply a chlorine solution for Well No. 1. Chlorine is 12.5% NaOCL, ANSI/NSF Standard 60 approved and will be applied at a rate of 1.0 mg/l of actual chlorine.
Water Supply Well	Well No. 3, a 200 foot deep well with 170 feet of 8-inch casing and 30 feet of 8-inch, 10 slot screen. The well will be equipped with a 20 Hp submersible pump and motor rated 200 gpm @ 225 feet TDH, set at 160 feet below land surface.
Treatment Facilities	A 5 million gpd water treatment plant located at the north end of Second Avenue. The facility will include 6 low service pumps, 2 rapid mix basins, 4 flocculation/sedimentation basins, 8 dual media filters, 3 million gallon water storage reservoir and 6 high service pumps. Also included are chemical feed pumps and related appurtenances for the addition of alum, fluoride, phosphate and chlorine.

General Project Information – Complete all boxes below.

7. Design engineer's name, engineering firm, address, phone number, and email address:

8. Indicate who will provide project construction inspection:
☐Organization listed in Box 1.
☐Engineering firm listed in Box 7.
☐Other - name, address, and phone number listed below.

9. Is a basis of design attached?
☐YES ☐NO

If no, briefly explain why a basis of design is not needed.

10. Are sealed and signed engineering plans attached?
☐YES ☐NO

If no, briefly explain why engineering plans are not needed.

11. Are sealed and signed construction specifications attached?
☐YES ☐NO

If specifications are not attached, they need to be on file at DEQ.

12. Were Recommended Standards for Water Works, Suggested Practice for Water Works, AWWA guidelines, and the requirements of Act 399 and its administrative rules followed?
☐YES ☐NO

If no, explain which deviations were made and why.

13. Are all coatings, chemical additives and construction materials ANSI/NSF or other adequate 3rd party approved?
☐YES ☐NO

If no, describe what coatings, additives or materials did not meet the applicable standard and why.

14. Are all water system facilities being installed in the public right-of-way or a dedicated utility easement? (For projects not located in the public right-of-way, utility easements must be shown on the plans.)
☐YES ☐NO

If no, explain how access will be obtained.

15. Is the project construction activity within a wetland (as defined by Section 324.30301(d)) of Part 303, 1994 PA 451?
☐YES ☐NO

If yes, a wetland permit must be obtained.

16. Is the project construction activity within a 100-year floodplain (as defined by R 323.1311(e)) of Part 31, 1994 PA 451, administrative rules?
☐YES ☐NO

If yes, a flood plain permit must be obtained.

17. Is the project construction activity within 500 feet of a lake, reservoir, or stream?
☐YES ☐NO

If yes, a Soil and Erosion Control Permit must be obtained or indicate if the owner listed in box 2 of this application is an Authorized Public Agency (Section 10 of Part 91, 1994 PA 451) ☐ Owner is APA.

18. Will the proposed construction activity be part of a project involving the disturbance of five (5) or more acres of land?
☐YES ☐NO

If yes, is this activity regulated by the National Pollutant Discharge Elimination System storm water regulations?
☐YES: NPDES Authorization to discharge storm water from construction activities must be obtained.

☐NO: Describe why activity is not regulated:

Please call 517-241-8993 with questions regarding the applicability of the storm water regulations.

19. Is the project in or adjacent to a site of suspected or known soil or groundwater contamination?
☐YES ☐NO

If yes, attach a copy of a plan acceptable to the DEQ for handling contaminated soils and/or groundwater disturbed during construction. Contact the local DEQ district office for listings of Michigan sites of environmental contamination.

20. IF YOU ARE A CUSTOMER/WHOLESALE/BULK PURCHASER, COMPLETE THE FOLLOWING

1) Name and WSSN of source water supply system (seller) _____

2) Does the water service contract require water producer/seller to review and approve customer/wholesale/bulk purchaser water system construction plans?
☐YES ☐NO

If yes to #2, the producer/seller approval letter must be attached when submitted to DEQ.

21. **Owner's Certification** The owner of the proposed facilities or the owner's authorized representative shall complete the owner's certification. It is anticipated that the owner will either be a governmental agency (city, village, township, county, etc.) or a private owner (individual, company, association, etc.) of a Type I public water supply.

OWNER'S CERTIFICATION

I, _____ (name), acting as the _____ (title/position) fo
(print) (print)

_____ (entity owning proposed facilities) certify that this project has
(print)

been reviewed and approved as detailed by the Plans and Specifications submitted under this application, and is in compliance with the requirements of 1976 PA 399, as amended, and its administrative rules.

Signature* Date Phone

*Original signature only, no photocopies will be accepted.

PROJECT BASIS OF DESIGN – FOR WATER MAIN PROJECTS

PROJECT NAME: _____

For this PROJECT the following information must be provided per Act 399 unless waived by the Department. For projects other than water main installation, or if additional space is needed, attach separate sheet(s) with detailed Basis of Design calculations.

A. A general map of the initial and ultimate service areas
☐ Included on engineering plans ☐ Attached separately

B. Number of service connections served by this permit application _____

C. Total number of service connections ultimately served by entire project _____

D. Residential Equivalent Units (REUs) served by this permit application _____

E. Total Residential Equivalent Units (REUs) ultimately served by entire project _____

F. Water flow rates for proposed project based on REUs listed in "D' and "E" above

1. Initial design average day flow (mgd) _____
2. Initial design maximum day flow (mgd) _____
3. Total design average day flow (mgd) _____
4. Total design maximum day flow (mgd) _____
5. Required fire flows: (1) _____ gpm for _____ hours

G. Actual flows and pressures of existing system at the connection point(s) (2)

_____ gpm at _____ psi
_____ gpm at _____ psi
_____ gpm at _____ psi
_____ gpm at _____ psi

H. Estimated minimum flows and pressures within the proposed water main system (3)

_____ gpm at _____ psi

(1) Every water system must decide what levels of fire fighting flows they wish to provide. Fire flow should be appropriate for the area (residential, commercial, industrial) being served by the project. Typical fire flow rates can be obtained from the water supply, local fire dept., ISO or AWWA. The water system must then be designed to be able to provide the required fire flows while maintaining at least 20 psi in all portions of the distribution system.

(2) Flows and pressures at the connection points must be given to determine if the existing water main(s) are able to deliver water to the new service area. These numbers can be obtained from a properly modeled and calibrated distribution system hydraulic analysis or hydrant flow tests performed in the field. If more than one connection is proposed, list as needed.

(3) List what the estimated minimum flows can be expected in the proposed water mains based on estimated water demands, head losses, elevation changes and other factors that may affect flows, such as dead end mains.

EXHIBIT C

State says Flint hasn't applied for permit to use river as drinking water source

A look at Flint water plant's facilities
The city plans to switch over to the Flint River as a primary drinking water source in April. *(MLive.com File Photo)*

Dominic Adams | dadams5@mlive.com By **Dominic Adams | dadams5@mlive.com**
Follow on Twitter
on March 28, 2014 at 6:30 AM, updated March 28, 2014 at 6:35 AM

FLINT, MI – Not so fast, state officials are telling Flint administrators charging toward an April 18 date to begin using the Flint River for all of the city's water needs.

The Michigan Department of Environmental Quality says it hasn't received the proper paperwork from the city. When the state does get it, a review of the application for state permission to use the river could take 30 to 45 days.

The city is switching over from buying treated water from Detroit to using the Flint River for drinking water temporarily. Once the Karegnondi Water Authority completes its pipeline from Lake Huron to Genesee County, Flint will switch to the KWA.

"In regards to the actual application, we haven't received one," said Steve Busch, Lansing and Jackson district supervisor in the DEQ's office of drinking water and municipal assistance. "We've received preliminary design plans and preliminary specifications and we've commented on those. They may be waiting until they have all the comments worked out before they submit the application."

Flint has bought treated Lake Huron water from Detroit, but that contract was terminated when Flint signed on to purchase 18 million gallons of raw water per day from the Karegnondi Water Authority. The contract termination goes into effect April 17.

The under-construction pipeline will bring raw Lake Huron water to Flint and Genesee County when it is complete by the end of 2016.

People in the city will drink Flint River water until the pipeline is complete. The Detroit Water and Sewerage

Department said it would **stop selling water to Flint and Genesee County** on its current contract on April 17, 2014. Genesee County is negotiating with Detroit for water until the KWA pipeline is flowing.

Busch said state reviews generally take between 30 and 45 days, but would not comment on if Flint would be ready to transition to river water by the time Detroit terminates the contract with the city.

"A fully engineered construction package, including all the work to be performed, has been submitted to the DEQ by the city of Flint in preparation for the transition to use of the Flint River as a temporary primary water source," said Howard Croft, Flint's director of public works, in a statement. "The submittal package has been under review for more than 30 days. The city has had ongoing discussions with the DEQ regarding the process and we anticipate a favorable response soon."

If the state hasn't approved Flint's use of river water by April 18, Busch said, the city would just continue to buy water from Detroit on a non-contract price until Flint has state OK to begin using the river.

"I don't think there is any scenario that we will just willy-nilly cut off service for Flint," said Bill Johnson, a consultant and spokesman for Detroit Water and Sewerage Department. "Negotiations are continuing."

Croft said the DEQ has been reviewing the request and asking questions throughout.

"When both sides come to an agreement and all issues have been addressed, then the permit is granted," Croft said in the statement. "Flint has been in ongoing communication with Genesee County and the DWSD to ensure that there is no interruption of water service to Flint customers. As the Mayor (Dayne Walling) said in his State of the City address 'beginning this spring, we will be using treated water from the Flint River as our temporary primary water source.' We are still on target to meet this goal."

Croft said there will be a series of public forums where residents can ask questions about the city's water transition, what that will mean for rates and others. He did not have specifics about when and where those meetings will take place.

*Dominic Adams is a reporter for The Flint Journal. Contact him at **dadams5@mlive.com** or 810-241-8803. Follow him on **Twitter**, **Facebook** or **Google+**.*

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EXHIBIT D

Emergency manager says city could have permit to use Flint River water by next week

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on April 05, 2014 at 6:00 AM, updated April 05, 2014 at 6:03 AM

FLINT, MI -- The city expects to have a state permit that will allow it to use the Flint River for drinking water by next week.

Emergency manager Darnell Earley said today, April 4, that the final application for the permit has been filed with the state Department of Environmental Quality after months of working with the state to ensure smooth sailing for the application.

"We expect to have the permit early next week," said Earley. "We are still on track to operate our treatment plant this spring."

The emergency manager's comments come after a **story in MLive-The Flint Journal** last week indicated the DEQ had not received the proper paperwork from the city for permission to use the river.

DEQ officials said in the story that the application process could take 30-45 days, but Earley challenged the idea that it will take that long and said city and state officials have been working closely in advance of submitting the final application.

The city is attempting to switch from buying treated water from the city of Detroit to using the Flint River for drinking water temporarily by mid-April.

Once the Karegnondi Water Authority completes its pipeline to Lake Huron, the city has committed to switching back to using water from Lake Huron and the KWA again

Earley said he expects to transition from Detroit water to Flint River water by April 17, the date Detroit officials have set for terminating the existing arrangement between the two cities.

"We don't think there will be a lag" between those dates, he said.

Earley said he has a contingency plan if the switch to the Flint River isn't made by April 17. Detroit Water

and Sewerage officials have said they don't intend to attempt to shut off the water supply to the city under any circumstances.

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EXHIBIT E

Flint gets final permit approvals from state to use Flint River for drinking water

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on April 10, 2014 at 4:00 PM, updated April 10, 2014 at 4:10 PM

FLINT, MI -- Bottoms up, Flint.

The state of Michigan has issued the **permits needed** for the city to begin using the Flint River for drinking water, a major step toward ending water purchases from the city of Detroit as early as next week.

"They've got a series of construction permits" that were issued Wednesday, April 10, said Brad Wurfel, a spokesman for the state Department of Environmental Quality. "They are**racing** to get all this work done."

The permits have been on Flint's to-do list since the Detroit Water and Sewerage Department said it was terminating its contract to sell water here on April 17.

That deadline was issued one year ago, and city and state water officials have been working and consulting on required upgrades at Flint's water treatment plant since.

Flint spokesman Jason Lorenz said today, April 10,that the city is still targeting April 17 as the day to shut off Lake Huron water -- treated and pumped here by DWSD -- and to turn on the intakes into the river.

Because work is still going on inside and outside the city's treatment plant, the exact time and date for the switch hasn't been set yet, Lorenz said.

Earlier this week, Flint emergency manager Darnell Earley called the city's ability to cut out the cost of water purchases from Detroit a "monumental change" for the city.

"The city of Flint will be able to control water costs," Earley said. "I'm kind of glad we're not a part of that discussion (about the future of the Detroit water system) anymore."

A consultant hired by Earley is expected to recommend new water rates during a City Council committee meeting at 5 p.m. today. The emergency manager has already said**rates will not be reduced** because of upgrades that are needed in Flint's water distribution system.

Flint officials will need that infrastructure upgrade whether they use river or lake water. City officials have signed an agreement to use Lake Huron water supplied by the Karegnondi Water Authority once the pipeline it is building is completed -- something that's expected to happen in 2016.

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EXHIBIT F

Watch Mayor Dayne Walling, EM Darnell Earley drink Flint River water before turning Detroit connection

Mayor Dayne Walling turns off water supply from Detroit, drinks Flint River water

Mayor Dayne Walling turns off the flow of water from Detroit as the Flint transitions to using the Flint River

Dominic Adams | dadams5@mlive.com By **Dominic Adams | dadams5@mlive.com**

Follow on Twitter

on April 25, 2014 at 1:00 PM, updated April 28, 2014 at 10:30 AM

FLINT, MI – Mayor Dayne Walling asked for a countdown from the group of about a dozen people huddled inside a small building on Friday, April 25.

"Three, two, one," they counted, then Walling pushed a small black button.

Seconds later, a green light winked out, and that was it.

Watch the video to see Flint effectively cut its water ties with Detroit when the mayor pushes the button.

Flint will use the river until the Karegnondi Water Authority builds its pipeline to Genesee County. The $274 million project is expected to be complete sometime in 2016.

Friday's event at the Flint water treatment plant also featured Walling and other elected officials drinking Flint River water.

"It tastes like...water," said Fourth Ward Councilman Joshua Freeman after drinking a cup.

It should take about two days for the residual Detroit water to clear the city's water system before all Flint customers will be drinking treated river water.

"Water is an absolute vital service that most everyone takes for granted," Walling said. "It's a historic moment for the city of Flint to return to its roots and use our own river as our drinking water supply."

*Dominic Adams is a reporter for The Flint Journal. Contact him at **dadams5@mlive.com** or 810-241-8803. Follow him on **Twitter**, **Facebook** or **Google+**.*

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EXHIBIT G

Second positive coliform bacteria test means Flint's west side water boil notice still in effect

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on August 18, 2014 at 4:00 PM, updated January 17, 2015 at 10:28 AM

(This story has been updated to correct information about water test results in the boil water advisory area.)

Flint Journal file photo

FLINT, MI -- A second water sample in an area where residents have been told to boil their drinking water has tested positive for total coliform, meaning owners of businesses and residents there should continue to boil water until further notice -- at least until Wednesday, Aug. 19.

"We don't know yet what caused this. We don't have a smoking pistol," said Mike Prysby, an engineer with the Michigan Department of Environmental Quality.

Update: Flint officials say 'abnormal' test to blame in E. coli scare

Flint officials have ramped up testing in the boil-water area, a half-mile square area on the city's west side, since a positive test for fecal coliform bacteria on Thursday, Aug. 14.

Fecal coliform bacteria -- also known as E.coli -- can make people sick, and are a particular concern for those with weakened immune systems.

Prysby called fecal coliform bacteria in drinking water unusual, something that typically happens fewer than a half-dozen times in any given year statewide. Sometimes, doesn't happen anywhere in Michigan over a full calendar year, he said.

The second positive test for total coliform came from samples taken Saturday, Aug. 16, according to Prysby.

The U.S. Environmental Protection Agency says positive total coliform tests suggest there may be a pathway

for pathogens and/or fecal contamination to enter the drinking water distribution system.

For drinking water, total coliforms are used to determine the adequacy of water treatment and the integrity of the distribution system, according to EPA.

"The absence of total coliforms in the distribution system minimizes the likelihood that fecal pathogens are present," the agency Web site says. "Thus, total coliforms are used to determine the vulnerability of a system to fecal contamination."

Fecal coliform and E. coli are bacteria that indicate water may be contaminated with human or animal feces.

This is the area in which a boil water advisory is in effect on the west side of the city of Flint.

Microbes in these wastes can cause diarrhea, cramps, nausea, headaches, or other symptoms, and may also pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems, according to a news release from the city.

Flint's boil advisory is in an area bordered by Mann Hall Avenue on the north and east, Whitney Avenue on the south, and the city limits on the west.

The contamination is a concern for Sandi Blackmon, owner of Sandi's Elegant Catering on South Ballenger Highway, who said she's scrambling to keep up with her work with a boil advisory in effect.

Not only does the advisory say water for drinking should be boiled, but also water for washing dishes -- even brushing teeth.

"I'm concerned, because I'm a former culinary arts student. I know about what food-born bacteria can do ... E.coli can be deadly," Blackmon said.

Representatives of other restaurants in the busy commercial area of Balleneger and Corunna Road said they were boiling water Monday and will be until they receive an all-clear message from City Hall.

"It's inconvenient but we do it -- we do the best we can," said David Todorovsky, an owner of Atlas Coney Island.

Flint Councilwoman Vicki VanBuren, who represents the area, has another reason for concern about the boil water advisory.

"My mother lives in that area," VanBuren said. "She has a lot of health concerns (so) I took her over some bottled water and told her not to use (tap water) to drink or cook with it.

"This would concern me no matter what part of the city it was in," she said.

Council members could get more information on the water contamination and what may have caused it at committee meetings this week.

In the meantime, Prysby said there are multiple possible explanations for the contamination, including water main breaks in the area, chlorine levels that are off-kilter or a poor sample location or collection technique.

Prysby said water coming out of Flint's water treatment plant continues to meet all drinking water standards, meaning the problem is within the water distribution system.

"We haven't confirmed a reason," he said of the results, "We're still investigating further. In some situations, we never find out why."

The city is warning the people in the localized area to not drink the water without boiling it first for one minute, and letting it cool before using.

Boiled or bottled water should be used for not just drinking, but for making ice, brushing teeth, washing dishes and preparing food.

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EXHIBIT H

Tests positive for total coliform again in water-boil area on Flint's west side

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on August 19, 2014 at 4:00 PM, updated January 17, 2015 at 10:25 AM

MLive file photo

FLINT, MI -- Water in a small area on Flint's west side has **tested positive** again for total coliform, and the city's boil water advisory there is continuing until at least Wednesday, Aug. 20.

Mike Prysby, district engineer for the Michigan Department of Environmental Quality, said water in the half-square-mile area tested positive for total coliform on Saturday, Aug. 16, and Sunday, Aug. 17.

Flint officials have ramped up testing in the boil-water area since a **positive test for fecal coliform bacteria** on Thursday, Aug. 14.

The boil-water area is Mann Hall Avenue on the north and east, Whitney Avenue on the south, and the city limits on the west.

Fecal coliform bacteria -- also known as E.coli -- can make people sick, and are a particular concern for those with weakened immune systems.

The U.S. Environmental Protection Agency says positive total coliform tests suggest there may be a pathway for pathogens and/or fecal contamination to enter the drinking water distribution system.

Total coliforms are used to determine the adequacy of water treatment and the integrity of the distribution system, according to EPA.

"The absence of total coliforms in the distribution system minimizes the likelihood that fecal pathogens are present," the agency Web site says. "Thus, total coliforms are used to determine the vulnerability of a system to fecal contamination."

The city of Flint**issued a statement** Monday, Aug. 18, saying "testing over the last 48 hours has shown no signs of E. coli or fecal coliform bacteria in the water," but makes no mention of the total coliform test results.

The city's statement says a sampling error is believed to be to blame for the initial abnormal test.

Prysby said the back-to-back positive total coliform tests are a "general indicator there could be more pathogenic organisms present" in water but is "not a direct indicator."

"We haven't narrowed it down to any one possibility (but) we don't play Russian roulette with public health," Prysby said of the abnormal samples and the need to continue testing.

Prysby said test results are "moving in the right direction" because there have been no additional discoveries of E. coli or fedcal coliform bacteria in water.

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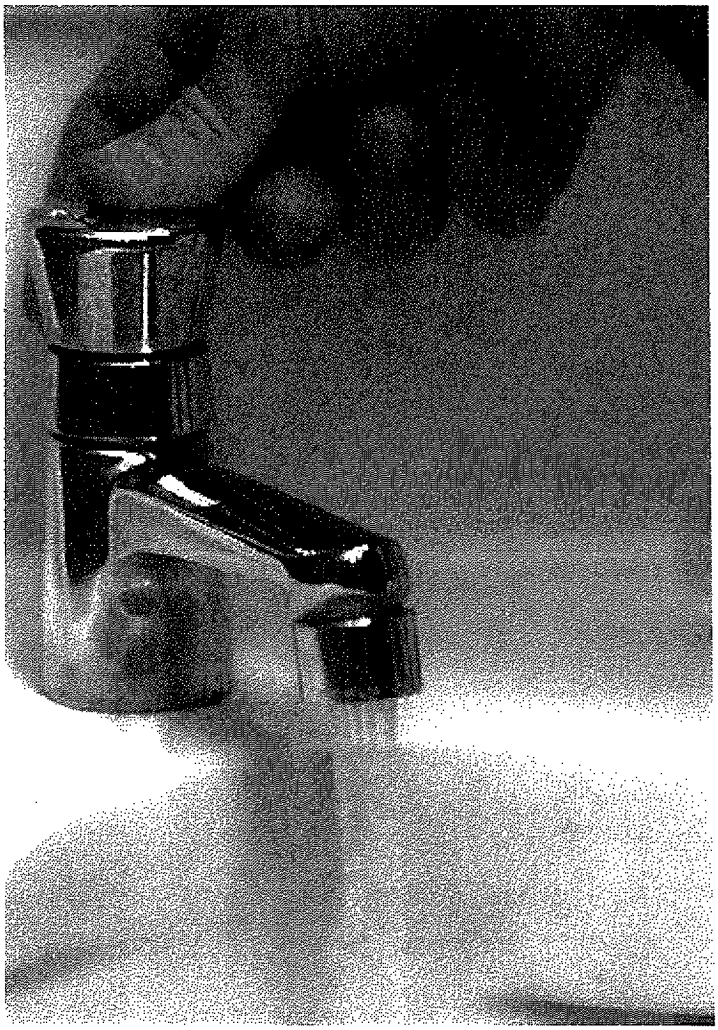
Flint issues boil water advisory for section of the city after positive test for total coliform bacteria

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on September 05, 2014 at 6:56 PM, updated January 17, 2015 at 10:20 AM

FLINT, MI -- The city has issued a boil advisory for a portion of Flint, saying water in the area has tested positive for total coliform bacteria.



MLive file photo

The area of the advisory is bordered by Dayton Street on the north, DuPont Street on the east, the Flint River on the south, and by Lavelle Road to the Flint River on the west, the city said in a news released issued today, Sept. 5.

The latest advisory marks the **second time in less than 30 days** that residents and businesses in a part of the city have been told to boil or use bottled water for drinking, bathing, making ice, brushing teeth, washing dishes, and preparing food.

The U.S. Environmental Protection Agency says positive total coliform tests suggest there may be a pathway for pathogens and fecal contamination to enter a drinking water system.

Total coliforms are used to determine the adequacy of water treatment and the integrity of the distribution system, according to EPA.

"The absence of total coliforms in the distribution system minimizes the likelihood that fecal pathogens are present," the agency Web site says. "Thus, total coliforms are used to determine the vulnerability of a

system to fecal contamination."

Boiling water kills bacteria or other harmful organisms, according to the city's advisory.

"Total coliform bacteria are generally not harmful themselves. Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present," the city's statement says.

"Usually, coliforms are a sign that there could be a problem with the treatment or distribution system (pipes). Whenever we detect coliform bacteria in any sample, we do follow-up testing to see if other bacteria of greater concern, such as fecal coliform or E. coli, are present. We did not find any of these bacteria in our subsequent testing," the statement says.

The city says it will flush the system in the boil advisory area and increase chlorine added to water.

All water testing results at the city's Water Treatment Plant have shown Flint's water, which is drawn from the Flint River, meets all Safe Water Drinking Standards when it leaves the facility.

The city says anyone with questions about the advisory or any other water issues should call 810-787-6537.

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Important Information About Your Drinking Water

Tests showed coliform bacteria in the City of Flint water

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did to correct the situation.

We routinely monitor for drinking water contaminants. We took 150 samples to test for the presence of coliform bacteria during September 2014. 15 of those samples (10%) showed the presence of coliform bacteria. The standard is that no more than 5 percent of our samples may do so.

What should I do?

You do not need to boil your water or take other corrective actions. However, if you have specific health concerns, consult your doctor. People with severely compromised immune systems, infants, and some elderly may be at increased risk. These people should seek advice about drinking water from their healthcare providers. General guidelines on ways to lessen the risk of infection by microbes are available from EPA's Safe Drinking Water Hotline at 1-800-426-4791.

What does this mean?

This is not an emergency. A portion of the City was notified to boil their water at the time of the incident until it was resolved. Coliform bacteria are generally not harmful themselves.

Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially harmful, bacteria may be present. Coliforms were found in more samples than were allowed and this was a warning of potential problems.

Usually, coliforms are a sign that there could be a problem with the system's treatment or distribution system (pipes). Whenever we detect coliform bacteria in any sample, we do follow-up testing to see if other bacteria of greater concern, such as fecal coliform or E. coli, are present. We did not find any of these bacteria in our subsequent testing, and further testing shows that this problem has been resolved.

What happened? What was done? On September 5, 2014, after routine and repeat samples showed the presence of total coliform, a boil water order was issued to the affected area. That area was flushed and resampled until samples were non-detect for total coliform. The boil order was lifted on September 9, 2014. Samples collected since then show that all results met acceptable limits.

For more information, please contact Mr. Brent Wright, Water Plant Supervisor, City Of Flint - DPW at 810.787.6537 ext. 3510 or Flint Water Plant - 4500 North Dort Highway, Flint, MI 48505.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by the City of Flint.

CERTIFICATION: F2, S3 WSSN: 02310

I certify that this water supply has fully complied with the public notification requirements in the Michigan Safe Drinking Water Act, 1976 PA 399, as amended, and the administrative rules.

Signature	PLANT SUPERVISOR Title	10-23-14 Date Distributed

Reminder to water supplier: This notice / certification must be sent to the DNRE.

EXHIBIT I

- Weekly Ads
- Local Guide
- Today's Ads
- Classifieds

- Tools
  - Email Newsletter Sign up
  - Advertise with Us
  - Contact Us
  - Work for Us
  - Order Photo Reprints
  - Contests
  - Subscribe
  - Manage Your Subscription
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- Twitter
- Reddit
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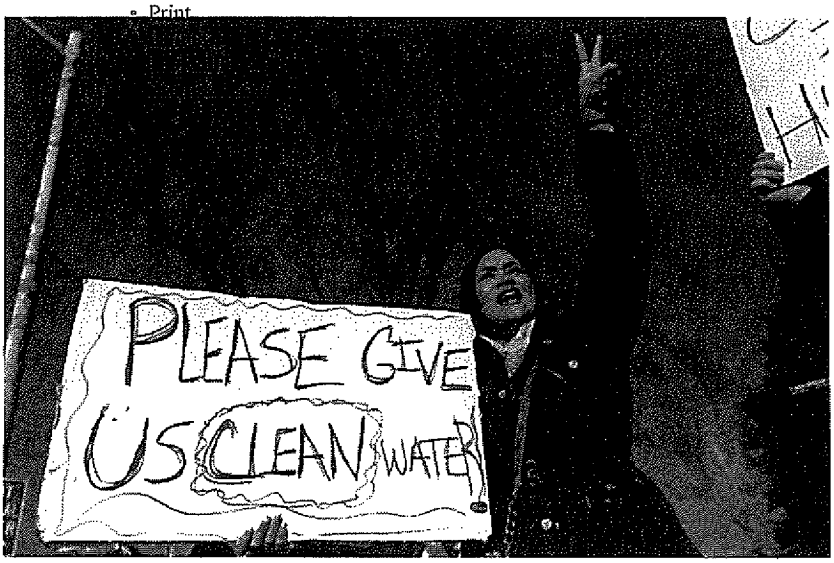
- Email
- Print

- Home
- News

Some Flint residents complain of skin problems from water



In this photo taken on Tuesday, Jan. 13, 2015, Gina Reynolds, a University of Michigan Flint student majoring in social work, chants "clean water is a human right," at cars passing by during a small protest over the conditions of the Flint water system in Downtown Flint, Mich. (AP Photo/The Flint Journal-MLive.com, Sam Owens)

By The Associated Press

Posted: 01/14/15, 4:25 PM EST | Updated: on 01/14/2015

2 Comments

FLINT- Some Flint residents are complaining that the city's water is causing skin problems for some children.

Hundreds of people turned out Tuesday to discuss Flint's water quality at a meeting with the mayor and city council members. Flint resident Qiana Dawson said her 4-year-old and 2-year-old have broken out in rashes because of the water, resulting in high doctor's bills.

"You all need to work with me on money," she said.

LeeAnne Walters said her 3-year-old, who has a compromised immune system, has been suffering from skin problems after bathing in the water.

"We got bad water," said City Councilman Eric Mays, who hosted the meeting. "If you buy a bad product, you return it for a refund."

The meeting was held hours after demonstrators gathered outside Flint City Hall to protest water quality and rising bills, The Flint Journal reported .

The city insists the water is safe.

Flint Mayor Dayne Walling said officials needs to focus on how to improve the water.

"I'm talking with people about water every single day," Walling said. "We need to work together as a community, with the cooperation of the state and federal government, to fix this issue."

Issues with the city's water supply emerged after Flint stopped buying water from Detroit's water department. Flint officials this month said they were dealing with elevated levels of a disinfection byproduct.

Flint switched from using Lake Huron as its drinking water source in April. The city plans to use the Flint River as its water source until the end of 2016, when the Karegnondi Water Authority expects to complete construction of a new Lake Huron water pipeline.

Some want Flint to switch back to using Detroit's water.

Walling has supported the decision by state-appointed emergency manager Darnell Earley to hire a consultant to correct the treatment of water from the Flint River. Gov#Rick Snyder on Tuesday announced that Earley would be put in charge of the struggling Detroit Public Schools district.

Earley said last week that going back to Detroit water was cost prohibitive and that the city "can ill-afford to switch course."

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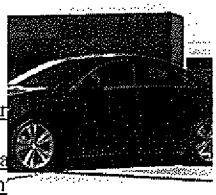

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Fourth family member sentenced for K2 sales

EXHIBIT J

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

City of Flint Did Not Meet Treatment Requirements

Our water system was recently found to be in violation of a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we are doing to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Samples were collected for total trihalomethanes (TTHM) analysis from eight locations on a quarterly basis (May 21, August 21, and November 20 of 2014). The average of the results at **ANY** of the eight locations must not exceed the maximum contaminant level (MCL) for TTHMs, otherwise our water system exceeds the Maximum Contaminant Level (MCL). The standard for TTHMs is 80 ug/L. The location reporting the highest TTHM level was 99 ug/L; thus, our water system exceeds the TTHM MCL.

What should I do?

- There is nothing you need to do unless you have a severely compromised immune system, have an infant, or are elderly. In that case, you may be at increased risk and should seek advice about drinking water from your health care provider.
- You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.

What does this mean?

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours.

People who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer.

What is being done?

We are currently working on solutions to correct the problem. We anticipate resolving the problem in 2015.

For more information, please contact Mr. Brent Wright or Mike Glasgow at 810-787-6537 or the Water Plant at 4500 North Dort Highway, Flint, MI 48505.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by the City of Flint.

CERTIFICATION: F1 S3 WSSN: 02310

I certify that this water supply has fully complied with the public notification requirements in the Michigan Safe Drinking Water Act, 1976 PA 399, as amended, and the administrative rules. Reminder to water supplier: This notice/ certification must be sent to the DEQ.

Michael Glasgow	ASSISTANT SUPERVISOR	1/2/15
Signature	Title	Date Distributed

City warns of potential health risks after Flint water tests revealed too much disinfection byproduct

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on January 02, 2015 at 9:09 PM, updated January 17, 2015 at 10:04 AM

FLINT, MI -- The city says there's been too much disinfection byproduct in Flint's water system recently, something that -- over many years could cause liver, kidney or central nervous system problems and an increased risk of cancer.

The notice from the city says Flint water is safe to drink but warns those with "a severely compromised immune system, (who) have an infant or are elderly" that they "may be at increased risk and should seek advice about drinking water from your health care provider."

For others, there is no need to boil water or take other actions, the notice says.

"It 's been a **rocky road**," City Council President Josh Freeman said. "It's not acceptable.

"People have a reasonable expectation that they are going to have quality drinking water. This is obviously going to rattle people."

Mailed Friday, Jan. 2, the customer notices come after the state Department of Environmental Quality issued a notice of violation of the Safe Drinking Water Act for maximum contaminant levels for trihalomethanes -- or TTHM -- a group of four chemicals that are formed as a byproduct of disinfecting water.

As city water plant operators used additional chlorine to fight bacteria in the Flint water system this summer, disinfectant byproduct levels also likely increased, city officials said Friday.

Levels of TTHM have decreased since that time, and in Nov. 20, testing at eight locations showed only one that exceeded maximum contamination levels, according to the state's notice of violation.

Testing on Aug. 21 showed contaminant levels were higher than maximum levels allowed at each of the same eight locations.

"The water in our system today is not in violation" because of efforts to improve the distribution system and adjust water treatment, said Doughtery Johnson, utilities administrator at the Flint water treatment plant.

Those changes "have likely contributed in part to the reduction in TTHM levels reported in the most recent

quarter, and suggest the city may be able to achieve compliance with the TTHM standard," the state's violation notice says.

City officials released a statement Friday saying its actions "appear to have corrected ... known compliance issues with the system, including a recent temporary increase in the maximum contamination level (MCL) of trihalomethanes (TTHM)

"Both the city of Flint and the MDEQ expect the corrective measures being implemented will resolve the issue by early 2015," the statement says.

The city's recent violation for excessive disinfectant byproducts is the latest in a series of issues for the Flint water system since officials **changed the water source** pumped to homes and business from treated Lake Huron water purchased from the city of Detroit to water drawn directly from the Flint River and treated in Flint.

The use of Flint River water is expected to be temporary because the city is a partner in the Karegnondi Water Authority, which is building a new water pipeline to Lake Huron.

Once that system is put into service, something that's expected to happen by the end of 2016, Flint will be in a position to return to using lake water.

Freeman said that long-term plan remains "the right path to be on" and said the city appears to be on course to fix the problem of disinfection byproduct levels, but Councilman Eric Mays called on the City Council to hold an inquiry about drinking water quality.

"Sworn information given under oath is the only information I trust," Mays said.

Residents have complained to the council about the smell and taste of the water since Flint stopped the flow of lake water here and there were three boil water advisories in a 22-day span this summer after positive tests for total coliform and fecal coliform bacteria.

In October, **General Motors announced** that it would no longer use treated river water at its engine plant here because of fears high chloride levels would cause corrosion.

Flint Department of Public Works Director Howard Croft said that the city's aging water distribution system remains the biggest obstacle to meeting Safe Drinking Water standards but officials have also said the relatively low quality of untreated river water and the need to more carefully manage chemical treatment has also been a factor.

Croft told a City Council committee in September that river water has proven hard to treat and to keep safe because of variables that wouldn't be factors in lake water, like temperature fluctuation and rain.

But Croft said the city has made improvements to its distribution system and said additional improvements are on the way, including pipe replacements, leak detection and hydraulic monitoring.

Johnson said the size of Flint's water system, which once served more than 200,000 people and now serves about half that number, also makes keeping water fresh in distribution pipes difficult.

Stagnant water is more susceptible to contamination, officials have said.

Flint will remain in violation of the Safe Drinking Water Act until every test site in the city has acceptable levels of disinfectant byproducts, Johnson and Croft said.

The next round of testing is scheduled to take place in February.

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EXHIBIT K

Lower TTHM levels put Flint in compliance with Safe Drinking Water Act

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on September 03, 2015 at 3:17 PM

FLINT, MI -- The city is no longer in violation of the federal Safe Drinking Water Act because the level of total trihalomethanes in water samples collected last month has fallen, the Michigan Department of Environmental Quality says.

The DEQ notified the city of the test results in a letter Wednesday, Sept. 2, ending eight months of the city under a violation of the act. The city will no longer have to send water customers warning notices about TTHM levels.

"Creative measures by the city have been successful in achieving compliance with this standard," reads the letter from Michael F. Prysby of the DEQ. "These measures have included replacement of anthracite filter media with granular activated carbon as well as the optimization of water treatment plant and distribution system processes and operations as recommended through operational evaluations conducted by the city.

"It is important that the city continue to follow these recommendations in order to limit disinfection byproduct formation and maintain compliance (with state requirements)," the letter says. "While (requirements have) now been met at all eight compliance sampling sites, an individual TTHM concentration above (80 parts per billion) was measured at one location ... in August 2015."

The location of the highest TTHM test in August was at Salem Housing, 3216 King Boulevard, which registered 90 ppb. Flint's violation of the federal law was the result of the annual average of TTHM above 80 ppb at a minimum of one of the eight testing locations.

City officials have said they expected improved TTHM levels after the installation of the new **$1.6 million carbon filter** this summer.

"The city of Flint is continuing to improve its water system, including both the areas of treatment and distribution," Mayor Dayne Walling said in a news release issued by the city Thursday, Aug. 3.

TTHM is a colorless, odorless byproduct of chlorinating water with high levels of total organic carbon. The city began having problems managing TTHM after it began using the Flint River as its water source in April 2014.

In past notices mailed to Flint water customers, the city has warned that drinking water with excess amounts of TTHM can pose increased health risks for those with a compromised immune system, the elderly, pregnant women and infants.

The good news on TTHM comes the day after researchers at Virginia Tech published an online report, saying tests show Flint **drinking water is "very corrosive"** and is "causing lead contamination in homes."

A statement from Walling on the lead issue says the city will work with the DEQ on a plan aimed at reducing the corrosive effects of water on older transmission pipes and home service lines.

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EXHIBIT L

(/lifestyle)

Scary: Leaded Water and One Flint Family's Toxic Nightmare

July 9th, 2015, 11:28 PM

Like 2 61

Curt Guyette is an investigative reporter for the ACLU of Michigan. His work, funded by a grant from the Ford Foundation, focuses on emergency management and open government. He writes regularly for Michigan Democracy Watch Blog. (http://www.aclumich.org/democracywatch/index.php/entry/hard-to-swallow-toxic-water-in-a-toxic-system)

By Curt Guyette

It took a while for LeeAnne Walters to realize the full impact of the number: 13,200.

LEEANN WALTERS

Walters—a stay-at home mom with four sons and a husband in the Navy—had seen other numbers reflecting the quality of drinking water at her Flint home that were devastating. But 13,200? She'd never seen anything like this.

The city had tested her water twice in this past March and both times found dangerously high levels of lead—104 parts per billion (ppb) and 397 ppb, respectively.

Those numbers filled her with dread, because they meant her family had been exposed to high levels of a terribly toxic heavy metal that put her children's future in jeopardy.

But it was the result of a third test of the tap water in her home, performed by independent experts at Virginia Tech University, that most stunned Walters.

"It took a while for me to wrap my head around it," said Walters.

The VT researchers discovered lead levels in Walters' water reached a jaw-dropping 13,200 ppb—more than twice the amount at which the U.S. Environmental Protection Agency classifies

water as hazardous waste.

"When I saw those numbers I was shocked," said Virginia Tech professor Marc Edwards, a former MacArthur Fellow and respected authority on corrosion in drinking-water systems, who oversaw the tests.

Edwards played a key role in discovering and addressing the problem of corroded water pipes and lead in Washington, D.C. during the early 2000s, in what's described as the *worst* contamination crisis ever seen in a major *urban* water system.

In terms of lead levels, the Walters family's numbers eclipsed even the worst D.C. homes.

"I have never in my 25-year career seen such outrageously high levels going into another home in the United States," said Edwards. "This was literally hazardous-waste levels."

But the condition of Walters' tap water raises a much more far-reaching question: Since the city moved away from Detroit's water system and began pumping water from the Flint River, how many other families have been put at risk by the city's questionable testing procedures and handling of the water supply?

The Walters family surely isn't alone in dealing with the threat of lead-laced drinking water. Flint has tens of thousands of homes that are a half-century old or older, built at a time when water service lines were typically made of lead.

And according to various experts, including an EPA water-quality specialist, the city's actions are only exacerbating the threat.

"What the public needs is accurate information," explained Miguel Del Toral, regulations manager for the Ground Water and Drinking Water Branch of the EPA's Region 5.

Instead, the city is utilizing testing measures that almost ensure that worst-case scenarios such as the one facing the Walters family escape detection, asserted Del Toral in an internal EPA memo provided to the ACLU of Michigan.

Compounding the threat is what Del Toral describes as the continued inability of officials to adequately treat water coming into people's homes from the Flint River.

"I don't want to scare people unnecessarily," said Del Toral in a phone interview from his home in Chicago. "But there is absolutely a problem in Flint that needs to be addressed right away."

During his interview with the ACLU of Michigan, Del Toral said he was willing to go on the record with his concerns, but that he was doing so as a private citizen, not as a representative of the EPA.

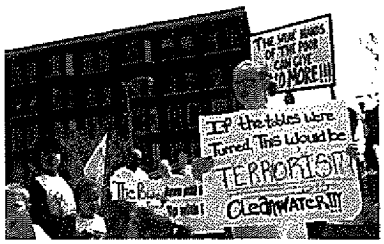
EPA rules, he said, required that such interviews be routed through the agency's public affairs people. But he's willing to speak out nonetheless, he said, because of the potential harm to the public is so great.

WATERING DOWN THE TESTS

Perhaps the most vexing problem in all of this is the contamination caused by the city's decades-old network of lead and iron pipes—a problem directly connected to the switch to river

water, and the city's failure to adequately treat it.

Under the U.S. Environmental Protection Agency's rules, if lead reaches a level of 15 parts per billion in water, the source of the problem must be identified and corrected.



Residents protest the poor water quality

In early March, after months of requests (and only after Walters had received a doctor's note raising concerns about problems with the water), the city finally conducted a test. It found lead levels of 104 ppb the first time. A second test recorded a level of 397 ppb.

Blood tests, taken after those water-sample numbers were reported, revealed that one of her children, a four year old, had lead poisoning.

The news was devastating, said Walters, and the concern it creates for her child's future is haunting.

"Lead can affect almost every organ and system in your body," according to the EPA's web site. "Children six years old and younger are most susceptible ... Even low levels of lead in the blood of children can result in: behavior and learning problems; lower IQ and hyperactivity; slowed growth; and hearing problems."

Those dangers made Walters all the more determined to get her questions answered.

For one thing, she wanted to know why residents were being instructed to "pre-flush" water lines before drawing samples that would be tested by the city

After much searching, she found Del Toral at the EPA's Region 5 in Chicago. He explained to her that her instincts were right, and that she had good cause to be concerned about the way testing was being done.

"The practice of pre-flushing before collecting compliance samples has been shown to result in the minimization of lead capture and significant underestimation of lead levels in drinking water," wrote Del Toral in an internal memo dated June 24.

Del Toral went on to say that the city's testing methods were a "serious concern" because they "could provide a false sense of security to the residents of Flint regarding lead levels in the water." As a result, he warned, residents could fail to take the necessary precautions to protect their families from lead in the drinking water.

Virginia Tech's Edwards completely agrees with Del Toral's assessment.

"The net effect of a 'pre-flush' is to greatly reduce the likelihood of detecting lead in samples collected ... that would normally be present in the consumers drinking water," Edwards wrote in an email. "I have long maintained that the practice should be banned, as it artificially lowers the amount of lead detected in samples versus typical consumer exposure."

Asked about these concerns, city spokesman Jason Lorenz offered the following email reply: "While I cannot directly respond to Mr. Del Toral's remarks without first contacting the EPA

Region 5 office, I can say that the City of Flint follows all the testing procedures and schedules as required by the U.S. EPA."

He added that the Michigan Department of Environmental Quality (MDEQ) endorses the city's sampling method. The MDEQ did not respond to phone calls and e-mails seeking its comments on the controversy.

Del Toral contended in an interview that what Flint's doing is actually exploiting a "loophole" in the law.

"From a technical standpoint, there's no justification for the way Flint is conducting its tests," Del Toral said. "Any credible scientist will tell you [the city's] method is not the way to catch worst-case conditions."

There is no legitimate reason for the city's methodology, said Del Toral.

During his interview with the ACLU of Michigan, Del Toral said he was willing to go on the record with his concerns, but that he was doing so as a private citizen, not as a representative of the EPA.

EPA rules, he said, required that such interviews be routed through the agency's public affairs people. But he was willing to speak out nonetheless, he said, because of the potential harm to the public.

FLUSHING OUT REAL ANSWERS

It was Del Toral who, after determining that the lead problem plaguing the Walters family was coming from outside their home, connected LeeAnne with Edwards at Virginia Tech.

Instead of taking a single sample after a line had been "pre-flushed" under the city's direction, Edwards instructed Walters to collect a series of samples from water that had been allowed to sit in the service line long enough to accurately reflect levels the family could be exposed to under normal use.

(Meanwhile, that same service line, dug up and replaced after the sample collection, was found to be made of lead in one section and iron in another.)

Edwards tested the water and discovered that the lead contamination ranged from 200 ppb to the 13,200 ppb figure that stunned LeeAnne Walters—and should likewise shock many others.

Given the age of much of Flint's infrastructure, Edwards agrees with Del Toral's assessment that the test results they found at the Walters home amount to an alarm going off, and others in the city need to pay attention.

"I do not see any reason why there would not be serious problems occurring in at least some other Flint homes," said Edwards.

In 1986, the U.S. Safe Drinking Water Act was amended to prohibit the use of lead pipes in public water systems. Every house built before that is potentially at risk, said Edwards. About half of Flint's roughly 40,000 homes are at least 50 years old.

Making things worse is the fact that the high levels of chlorine being used to treat Flint's dirty river

water lead to the creation of a carcinogenic byproduct know as total trihalomenhanes, or TTH?M. To keep TTHM levels down, the city is adding ferric chloride. The trouble is, that additive can also accelerate the corrosion of lead and iron pipes.

Adding yet another layer to the problem is something the city is *not* doing.

According to Del Toral, Flint should be adding corrosion-control chemicals designed to help keep lead and copper in pipes from leaching into drinking water. Doing so is required by federal regulations, wrote Del Toral in his memo.

"To our knowledge, that is inaccurate," said Flint spokesman Lorenz. "Before the plant was placed in operation, the City (and our engineering firm) had numerous discussions with DEQ personnel and inquired if corrosion-control chemicals – typically phosphates --needed to be included in the treatment process. The use of these chemicals was not required or mandated."

What's indisputable is this:

Flint's water contained corrosion-control chemicals until April 2014, when Flint's ties to the Detroit water system were severed. Flint officials hailed that changeover as a cost-cutting move for a city facing a financial crisis so severe it had been placed under the control of a state-appointed emergency manager.

Discontinuing the use of the anti-corrosion chemicals allowed toxic scale built up on the insides of pipes over the past decades to be released into water flowing into people's homes, explained Del Toral.

In his memo, Del Toral warned: "The lack of mitigating treatment is especially concerning as the high lead levels [that result] will likely not be reflected in the City of Flint's compliance samples due to sampling procedures used…"

In other words, at the same time the city is exacerbating the problem, it's conducting tests that will probably fail to identify the true extent of the threat.

Del Toral described the situation as a "major concern."

"In the absence of any corrosion control treatment, lead levels in drinking water can be expected to increase," he warned in his memo.

The EPA offered Flint officials the use of agency experts to help get the situation under control, said Del Toral, but added that, to his knowledge, the city has so far declined all help.

LeeAnne Walters said that when she asked why city officials weren't taking the EPA's offer of assistance, she was told, "We don't need it."

Flint spokesman Lorenz, on the other hand, maintained that "the city continues to work closely with the MDEQ and the EPA Regional Office."

As for Walters's family, that the city has finally replaced the service line leading to their home, and lead levels have dropped below the 15 ppb EPA action level.

The problem now, she said, is that water currently coming out of her tap tinged yellow and smells of rotten eggs. City officials have given her no explanation as to the possible cause of that.

It is just one more in a long list of questions that need to be addressed.

"What we need," said Walters, "are more answers."

But it's not just answers the people of Flint require.

They also need solutions. And, as Del Toral's EPA memo emphasizes, they need them immediately.

Corrosive Impact: Leaded Water & One Flint Family's T...

Read more: Michigan Democracy Watch Project (http://www.aclumich.org/democracywatch/index.php/entry/corrosive-impact-leaded-water-and-one-flint-family-s-toxic-nightmare)

Lead leaches into 'very corrosive' Flint drinking water, researchers say

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on September 02, 2015 at 5:41 PM, updated September 03, 2015 at 9:01 AM

Flint Journal file photo

FLINT, MI -- Flint drinking water is "very corrosive" and "causing lead contamination in homes," researchers from Virginia Tech University reported online Wednesday, Sept. 2.

"On a scientific basis, Flint River water leaches more lead from plumbing than does Detroit water," the report concludes. "This is creating a public health threat in some Flint homes that have lead pipe or lead solder."

The Virginia Tech report comes as students there, overseen by Professor Marc Edwards, are in the final days of testing water collected from 300 sample kits distributed to Flint residents.

On Monday, Aug. 31, the researchers reported 42 percent of 120 initial samples from Flint had lead levels that were more than 5 parts per billion, "which suggests a serious lead-in-water problem, according to our experience and criteria."

Virginia Tech was initially contacted by a Flint resident who had concerns about lead in **Flint water**. It has been working with citizen groups in Flint such as Water You Fighting For.

Twenty percent of the first samples also exceeded the U.S. Environmental Protection Agency lead action limit of 15 ppb, the report said.

The EPA requires water systems like Flint's to collect tap samples from sites that are more likely to have plumbing materials containing lead.

If more than 10 percent of samples exceed 15 ppb, then water systems are required to take action, including steps to optimize corrosion control treatment.

Lead is a toxic metal that was used for many years in products found in and around homes, according to EPA.

"Even at low levels, lead may cause a range of health effects, including behavioral problems and learning disabilities," EPA's website says. "Children 6 years old and under are most at risk because this is when the

brain is developing."

The Virginia Tech report on Flint River water comes two days after representatives of three organizations delivered more than 26,000 online **petition signatures to Mayor Dayne Walling**, demanding the city end its use of the Flint River and **reconnect the city to the Detroit water system**.

The petition language says high lead levels are one reason the city should no longer use the river as a drinking water source.

Walling and Department of Public Works Director Howard Croft issued statements in response to questions about lead in Flint water Wednesday after Croft declined to discuss the issue in a news conference Tuesday.

Flint spokesman Jason Lorenz said the two would not comment further Wednesday.

"The city of Flint is currently in compliance with the safety mandates of the Michigan Department of Environmental Quality and continues to work with them to stay in compliance with all safety and quality standards," Croft's statement said. "We have also been in constant contact with Virginia Tech, sharing information as it becomes available."

Walling, who has supported Flint's continued use of the Flint River as a drinking water source, said, "Lead can be a concern in communities with older public and private infrastructure.

"The city of Flint has offered free and independent testing to residents since spring, and I encourage people to use this service if they have questions," Walling's statement said.

Edwards, a professor of civil and environmental engineering, said the elevated lead levels he has seen in Flint tap water are tied to a corrosive water source that contains about eight times more chloride than Detroit water does.

"Chloride is generally considered to be very corrosive to iron. For instance, chloride present in road salts applied in the winter causes iron in cars and bridges to rust," the Virginia Tech team's website says.

"This could be a huge public health problem. ... The Flint water just ate the pipe up," Edwards said of the testing he has overseen so far.

In the testing, researchers took copper pipe pieces joined with lead solder inside them, according to the report, which says lead solder is probably present in plumbing systems of many Flint homes built before 1986.

Lead solder-copper pipe test pieces were placed in containers filled with water from Detroit and Flint in the experiment, according to the report.

"If it were me, I would not be using (Flint River water) for cooking or drinking unless I had it tested for lead," said Edwards, who previously mounted a six-year campaign that succeeded in forcing the U.S. Centers for Disease Control and Prevention to admit it had misled the public about the risk of lead in the Washington, D.C., area's drinking water, according to The Washington Post.

"Bottled or filtered water (is what I would use for) children under 6 years old or if I was pregnant," he said.

Brad Wurfel, communications director for the state Department of Environmental Quality, said the preliminary water testing results from Virginia Tech don't jibe with two separate rounds of testing during the past year by the city.

That testing indicated "Flint drinking water meets state and federal safe drinking water standards," Wurfel said.

Wurfel said lead levels detected in testing are not the result of water containing lead when it leaves Flint's treatment plant. But he said the state "has requested Flint optimize its water treatment to further limit exposure to lead from plumbing in homes."

The concerns about lead are the latest challenge for the Flint water system since the city started using the Flint River to replace Lake Huron water sold by the city of Detroit in April 2014.

Since the switch, the city has been plagued by issues such as water main breaks and boil water advisories because of bacteria and has been in violation of the Safe Drinking Water Act because of high levels of total trihalomethanes (TTHM), a byproduct of chlorinating river water.

The Rev. Allen Overton, who hand-delivered petitions to Walling on Monday, asking that city officials reconnect the Flint water system to Detroit, said Wednesday that the Virginia Tech experiment is more evidence Flint is not using the best quality of water available.

"We have a major health issue here, (and) they are not being honest with the citizens of Flint," Overton said.

City Council President Josh Freeman said the city has been willing to provide customers with free water testing and has taken action — such as installing a new $1.6 million filtration system — to address problems such as TTHM.

Councilman Eric Mays said, as more water testing is done, it becomes clearer that Flint should be negotiating with Detroit for a new, short-term water contract as work continues on the Karegnondi Water Authority pipeline.

The pipeline, a partnership between the city and Genesee County, is expected to bring untreated Lake Huron

water to Flint at some point in 2016.

"They are trying to make the water safe by trial and error," said Mays, who called Flint's water situation "a disgrace."

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Menu

Home (http://flintwaterstudy.org/) Test Update: Flint River water 19X more corrosive than Detroit water for Lead Solder; Now What?

Test Update: Flint River water 19X more corrosive than Detroit water for Lead Solder; Now What?

September 11, 2015 (http://flintwaterstudy.org/2015/09/test-update-flint-river-water-19x-more-corrosive-than-detroit-water-for-lead-solder-now-what/) Siddhartha Roy (http://flintwaterstudy.org/author/flintwaterstudy/) Articles (http://flintwaterstudy.org/category/articles/), Research Updates (http://flintwaterstudy.org/category/research-updates/)

We are now three weeks into our laboratory experiment w.r.t. testing the relative corrosivity of Flint River water versus Detroit water (http://flintwaterstudy.org/2015/09/flint-rivers-water-is-very-corrosive-to-lead-and-causing-lead-contamination-in-homes/). As the test continues, it becomes a more accurate measure of the relative corrosivity of the two waters. We previously noted, that it would be expected that Flint River water would be much more corrosive than Detroit water, due to its higher chloride content.

Experiment: When we visited Flint, we took pieces of copper pipe joined with lead solder (old solder is 50% lead by weight (http://www.copper.org/environment/water/e_p_lead.html)) inside them. Lead solder is probably present in the plumbing of many Detroit/Flint homes built before 1986 when it was banned from use in drinking water systems (http://www.copper.org/environment/water/e_p_lead.html). We put the lead solder-copper pipe test pieces in 250 mL containers, and filled them with the following three waters:

Test 1) Detroit water

Test 2) Current Flint River water

Test 3) Current Flint River water with orthophosphate (a typical corrosion inhibitor (http://www.lenntech.com/products/chemicals/water-treatment-chemicals.htm#Corrosion%20inhibitors))

Test 3 was conducted, to see if ***adding orthophosphate to Flint River water would stop lead corrosion.*** About 50% of water companies in the U.S. add orthophosphate to their water to control lead corrosion, but it is not currently added to Flint River water.

Results and Observations:

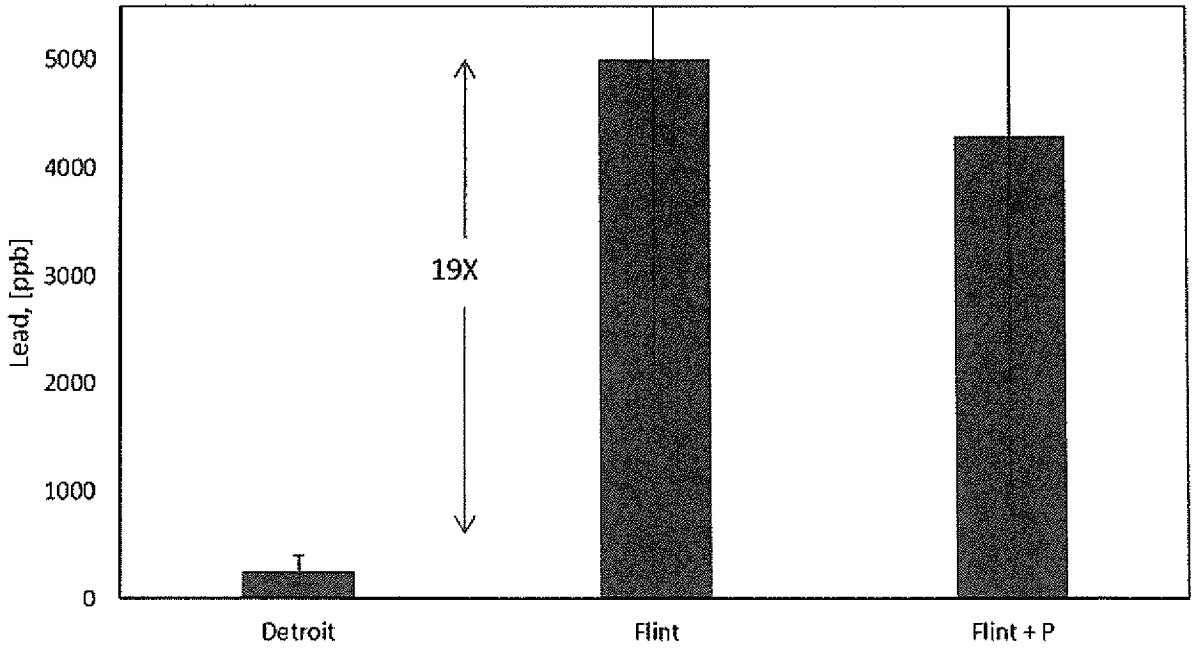

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Figure 1 – Data from Week 3 comparing lead corrosion in Detroit water (left), current Flint water (middle), and Flint water with orthophosphate (right)

From the data shown above in Figure 1, it is clear that Detroit water is much less corrosive to lead solder than the Flint River water. **On average, Detroit water is 19 times (or 19X) less corrosive than the Flint River water currently in use.** That is, the current Flint River water leaches 19X more lead to the water than Detroit water. This explains why the lead in Flint's water in our survey, is so high, (http://flintwaterstudy.org/information-for-flint-residents/results-for-citizen-testing-for-lead-300-kits/)even when it was low before when Detroit water was being used.

We can actually still see the high lead in the Flint River water test by eye (i.e. as white particles suspended in the water (http://flintwaterstudy.org/2015/09/flint-rivers-water-is-very-corrosive-to-lead-and-causing-lead-contamination-in-homes/)). Lead levels in our test with Flint River water, were slightly above hazardous waste levels (5000 ppb), which is still lower than the worst levels of lead we detected in the

home of Flint resident Lee-Anne Walters (http://flintwaterstudy.org/2015/08/hazardous-waste-levels-of-lead-found-in-a-flint-households-water/).

Orthophosphate still does not seem to help stop lead leaching in Flint River water, which is also consistent with expectations based on experiments in high chloride water (http://www.sciencedirect.com/science/article/pii/S0010938X11000382). There is a slight improvement, but even with phosphate, Flint River water has 16 times more lead compared to the same condition using Detroit water. We will continue to run these tests, but at present it does not seem like orthophosphate will provide a quick answer to the very high lead levels in Flint water.

Conclusion: On a scientific basis, Flint River water leaches more lead from plumbing than does Detroit water as predicted before (http://flintwaterstudy.org/2015/08/why-is-it-possible-that-flint-river-water-cannot-be-treated-to-meet-federal-standards/). **This is creating a public health threat in some Flint homes that have lead pipe or lead solder. Unfortunately, adding orthophosphate corrosion inhibitor to the Flint River water, does not solve the lead problem.**

PRACTICAL IMPLICATIONS

We believe, that in the weeks and months ahead, MDEQ and Flint will be forced to admit they failed to protect public health as required under the Federal Lead and Copper Rule. The question that will then be asked is "What can be done to protect residents?"

Step 1: Issue Scientifically Sound Advice.

The first step is to admit that **the water in Flint is not safe for cooking or drinking** (http://flintwaterstudy.org/information-for-flint-residents/results-for-citizen-testing-for-lead-300-kits/)— a fact that MDEQ still denies. According to MDEQ statements provided to reporter Ronald Fonger this week, which were presented to us for comment, MDEQ's Brad Wurfel asserts that:

> ***"the issue here isn't Flint's water source or water plants. It's the high number of older homes with lead pipes and lead service connections....Folks who have concerns should get a water specialist to take a look at their home and see what they need to do to achieve peace of mind, because lead and copper are home plumbing problems that no water source can eliminate entirely."***

We note that this is the exact same position that MDEQ and the city took months ago, after Lee-Anne Walters' child was lead poisoned from exposure to high lead in Flint water (http://www.abc12.com/home/headlines/Flint-mother-said-the-water-gave-her-son-Lead-poisoning-324496551.html). After MDEQ and the City blamed Ms. Walters home plumbing for the problem, an EPA water specialist did come to her home and inspected her plumbing. His finding: There were no lead plumbing sources in her home (http://www.aclumich.org/sites/default/files/file/EPAWaterReport062415.pdf). How does that finding, provide Ms. Walters and other Flint residents, with "peace of mind?"

Likewise, during our sampling events in Flint homes (http://flintwaterstudy.org/information-for-flint-residents/results-for-citizen-testing-for-lead-300-kits/), we are finding very high lead in other homes with modern lead free plumbing, which again points to city owned lead pipes and corrosive water as the problem.

On the basis of these facts, we consider MDEQ's position to be both unscientific and irresponsible, and we stand by our recommendations to Flint consumers, that they immediately reduce their exposure to high lead in Flint's water by implementing protective measures when using tap water for drinking or cooking.

Step 2. Implement Corrosion Control.

The second step will ultimately require some sort of corrosion control treatment to reduce lead in Flint water. Three options are possible as detailed below:

1. **Switch back to the non-corrosive Detroit water.** It is our opinion, based on years of experience, that Flint's lead levels would drop markedly in about one month.
2. **Add orthophosphate to Flint River water.** As indicated in this work, orthophosphate will not reduce lead leaching from all lead plumbing sources. On the basis of our extensive experience, we would only expect modest improvements to water lead levels if orthophosphate was added.
3. **Wait for KWA pipeline.** If orthophosphate was added to water from the KWA pipeline, it would be about the same corrosivity as Detroit water (Option A). In that case, Flint residents will have to live with the very high lead in their water, until at least one month after the pipeline is connected.

Politicians and residents will ultimately have to look at which of the above options is best for Flint, after weighing feasibility and costs.

Experiments and analysis: Christina Devine

Primary Author: Dr. Marc Edwards

Acknowledgements: Siddhartha Roy

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Our VT Research Team wins $50,000 grant from the National Science Foundation to study Flint water (http://flintwaterstudy.org/2015/09/our-virginia-tech-research-team-wins-a-50000-grant-from-the-national-science-foundation-to-study-flint-water/)

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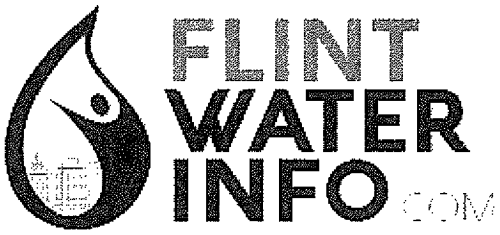

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Lead levels in Flint water spiked after switch to river, state records show

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on September 19, 2015 at 5:50 AM, updated September 19, 2015 at 7:59 AM

Flint Journal file photo

FLINT, MI -- City officials insist their own testing shows Flint water is **safe** and within federal guidelines for lead.

But those same tests also show lead levels have been rising since the city began using the Flint River for water 16 months ago.

The results of Flint's testing for lead since 1992, released by the state Department of Environmental Quality to The Flint Journal-MLive, show 10 percent of homes sampled in the city's most recent testing contained 11 parts per billion or more of lead, with six of 69 samples exceeding the federal lead limit of 15 ppb.

Those are the highest lead levels measured in Flint by the city in more than 20 years, the state data shows.

In contrast, the city's tests of Lake Huron water from Detroit for one 10-year period -- from June 2001 until September 2011 -- resulted in just one of 155 samples registering higher than 15 ppb of lead.

Flint began treating river water in April 2014 after Detroit terminated an expired contract for selling water to the city. The cutoff came after Flint joined Genesee County to form the Karegnondi Water Authority, which is building a new pipeline to Lake Huron, a project that's expected to be completed sometime next year.

City and state officials have pointed to their own testing as evidence that Flint water is safe and under the 15 ppb limit, but have said little about the lead level drifting up.

Marc Edwards, who is supervising separate water **testing in Flint by Virginia Tech University**, said there's no mistaking the pattern.

"The Flint River -- based on the chemistry -- has an obvious propensity for lead to be released to water," Edwards said. "There should have been red lights flashing (when the city began using the river in April 2014) -- knowing that if you put that water into Flint's system without corrosion control, you're going to see a massive lead release."

That release is what Edwards' testing has shown as 10 percent of homes sampled by students and faculty from Virginia Tech have had lead levels of at least 25 ppb.

Since the testing started, Mayor Dayne Walling announced Flint would speed up development of a plan for reducing corrosiveness of city water and called for $10 million in state funds to begin replacing lead and lead solder in water service lines and plumbing.

Flint Department of Public Works Director Howard Croft would not attribute higher lead levels to the river alone, but said the source of the water is one variable as is the amount of time water is stagnant in pipes.

"Lead is in there. It's always been there," Croft said. "We would like there to be no lead, (but) I'm happy how aggressively we are responding" to what the city has.

Steve Busch, Lansing and Jackson district supervisor in the DEQ's office of drinking water and municipal assistance, said lead testing results vary in many areas and a shift doesn't necessarily show Flint River water is more susceptible to higher lead levels than lake water.

"We see numbers fluctuate with the same treatment and the same water," Busch said. "We have levels go up and down from monitoring round to monitoring round."

Lead is a toxic metal that was used for many year in products found in and around homes, according to the U.S. Environmental Protection Agency. Even at low levels, lead may cause health effects such as behavioral problems and learning disabilities.

Current regulations for lead in water began in 1992 and require a limited amount of testing to measure the degree to which lead leaches into tap water after flowing through lead service lines and lead solder in home plumbing.

If more than 10 percent of tap water samples from water systems exceed 15 ppb, the water system can be required to take steps like making water less corrosive or replacing lead service lines.

Since the EPA announced its lead and copper rule in 1991, Flint has collected 33 samples every six to 36 months but the number of tests increased after the city changed its water source to the river,

according to state data.

State records show 100 samples were collected from Flint in the last six months of 2014, showing two sites with readings of more than 15 ppb of lead and 10 percent of homes registering at 6 ppb or more.

From January until June this year, the city collected just 69 samples, a reduction that was allowed because Flint's population had dropped below 100,000, Busch said.

The last time testing by the city showed a higher percentage of water samples above 11 parts per billion was 1992, immediately after new lead and copper rules went into effect.

In that case, the city of Detroit took five years to develop a plan to better control corrosion and lead levels and brought lead levels down from a high of 15 ppb in 10 percent of samples taken in Flint.

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Flint pediatricians raise alarm about lead levels in city water

By SARAH HULETT (/PEOPLE/SARAH-HULETT) • SEP 24, 2015

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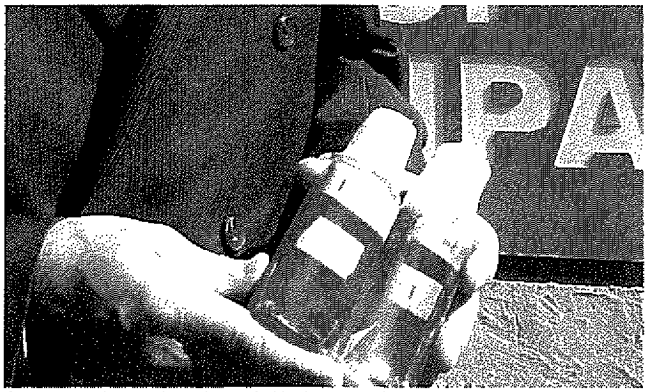

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Water samples from Flint, on the left, and Detroit.

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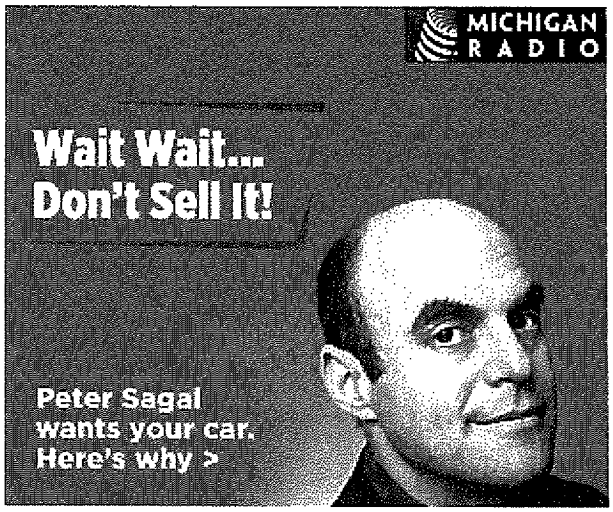

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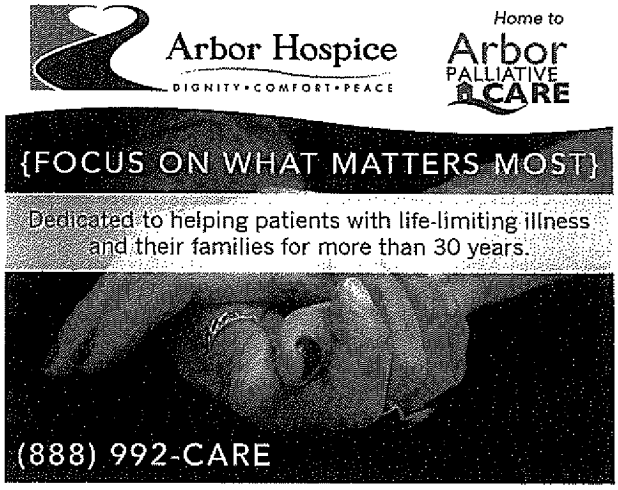

The water in Flint is likely poisoning kids.

That's what pediatricians in the city say, after looking at lead levels in young children before and after the city switched the source of its drinking water from the Detroit water system to the Flint River.

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There's a long list of complaints about Flint's water. But physicians are really concerned about this one.

"My research shows that lead levels have gone up. I cannot say it's from the water, but that's the thing that has happened," said Dr. Mona Hanna-Attisha, a pediatrician with Hurley Children's Hospital.

Hanna-Attisha says she decided to look into blood-lead levels after researchers from Virginia Tech found elevated lead levels in tap water due to the corrosive nature of the river water.

She analyzed blood test results of 1,746 children age five and younger from Flint, and 1,670 non-Flint children. Before the switch, 2.1% of Flint children had elevated blood lead levels. After the switch, that rate jumped to 4%. By comparison, the rate for non-Flint children went from .6% to 1%, which Hanna-Attisha says is statistically insignificant.

She calls the city's response to water quality problems "inadequate," and says precautions need to be taken immediately.

"Because the impact of not doing anything will haunt us for years to come," says Hanna-Attisha, citing interventions like special education, lost productivity, and incarceration costs associated with high lead levels. "The cost will be astronomical in decades to come. So we cannot wait until this year or next year. We have to think five years from now, ten years from now."

Hanna-Attisha and other physicians are urging the city to issue an advisory about how to minimize exposure to lead in the water. The county health department says it's drafting that advisory now.

The news about the elevated lead levels did not surprise Lee Anne Walters. She found out her son had alarmingly high lead levels in April of this year.

"I kept talking to the doctors, trying to figure out why he wasn't growing," says Walters. "He was 27 pounds at four years old. His hair was thinning, breaking out in rashes."

Walters says her son would get a rash when he took baths. There would be a line on his body that corresponded with where the bath water ended. Above it, his skin was fine. Below it, where his skin was underwater, he'd get a rash.

"The doctors in the city gave me a hard time testing my kids," says Walters. "I took them out the city to a dermatologist down in Brighton, who ran the test and called me personally to tell me that he did have lead poisoning and anemia from the lead poisoning, and he's having speech problems."

It turns out the rash was probably from a chlorine byproduct the city had to dump into the river water to kill the E. coli that had made people sick the summer before.

People knew that chemical – it's called TTHM – was a problem. But lead wasn't on many people's radar until a guy named Marc Edwards came to town.

"I want them to take responsibility. I want them to quit poisoning their citizens."

Edwards is a researcher from Virginia Tech. His tests of Flint tap water found lead levels in some homes that were higher than federal regulators allow – and a lot higher than the city found in the tests it conducted. He says the river water is so corrosive it's eating the lead from old pipes and solder.

"That's why we are actually asking for funding to help with infrastructure," said Flint City Administrator Natasha Henderson. "It's not a secret that the city is very financially distressed."

Henderson and other city officials say they're working with state and federal regulators to get a handle on the problem.

But they're quick to point out that the city's own tests show it's in compliance with the Safe Drinking Water Act.

But activists say they don't trust how the city arrived at that conclusion, and point to the Virginia Tech results as evidence that the city has been conducting flawed testing.

"I want them to take responsibility," says Lee Anne Walters, the mother whose son has experienced health problems since the switch. "I want them to quit poisoning their citizens."

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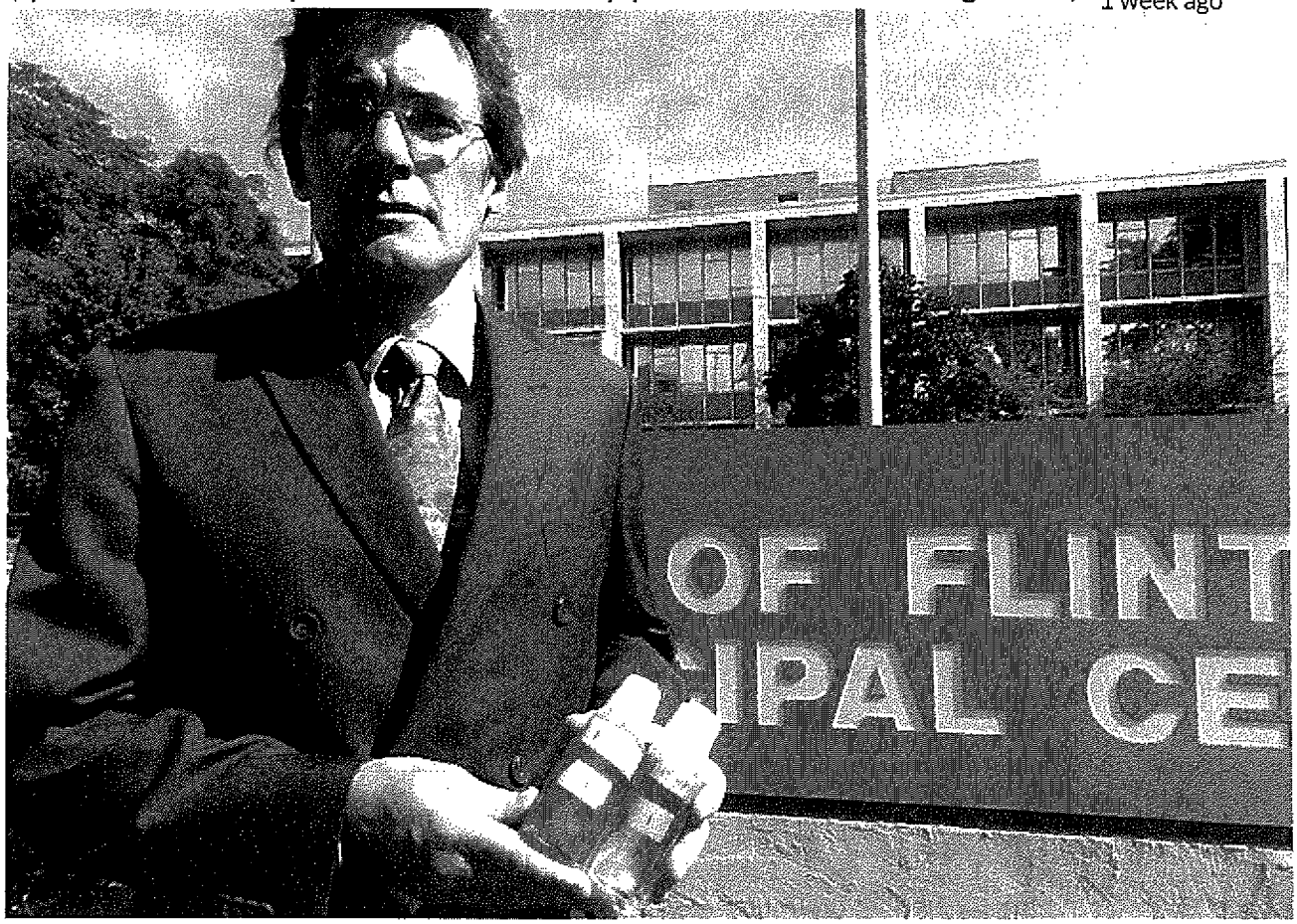

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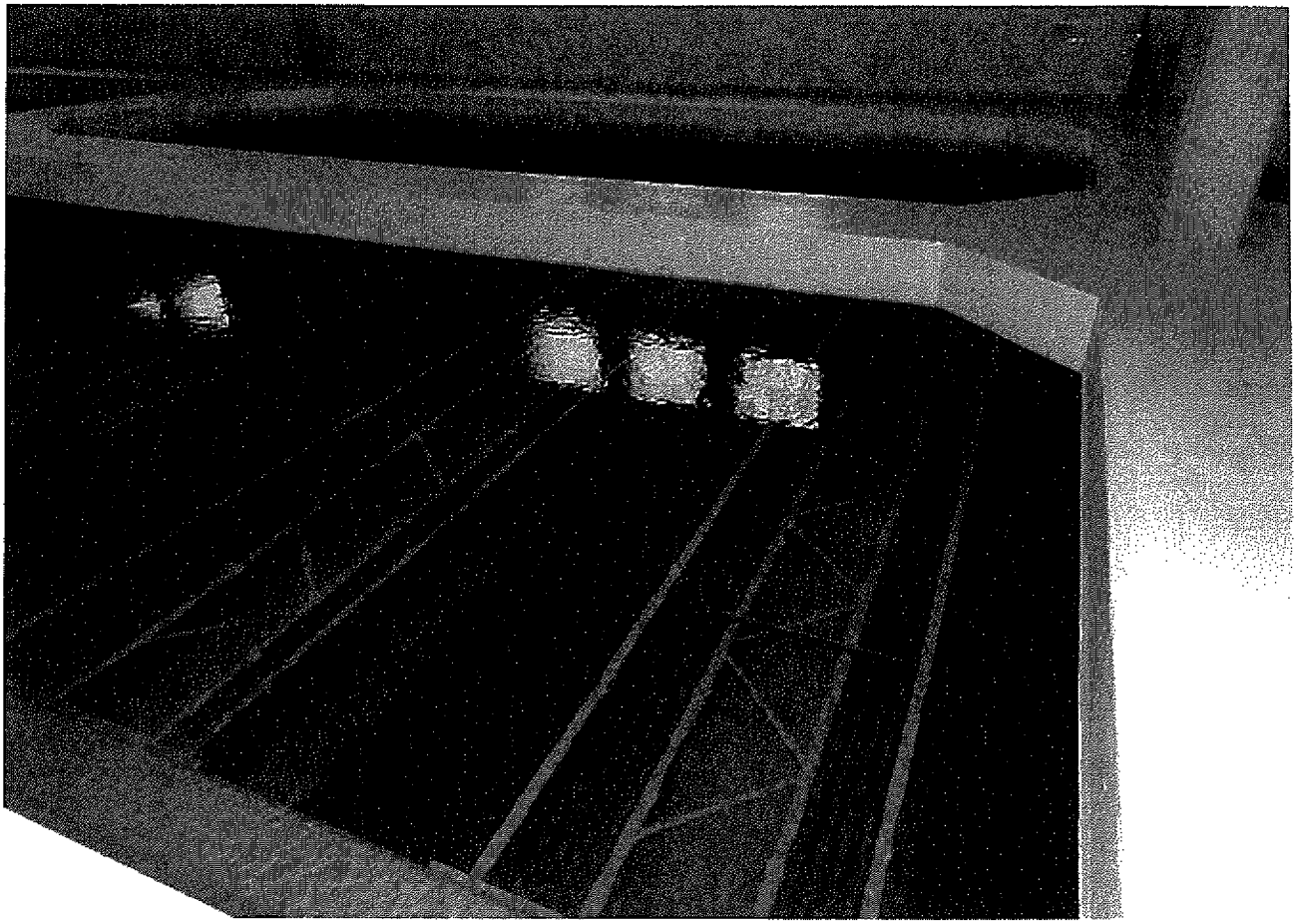

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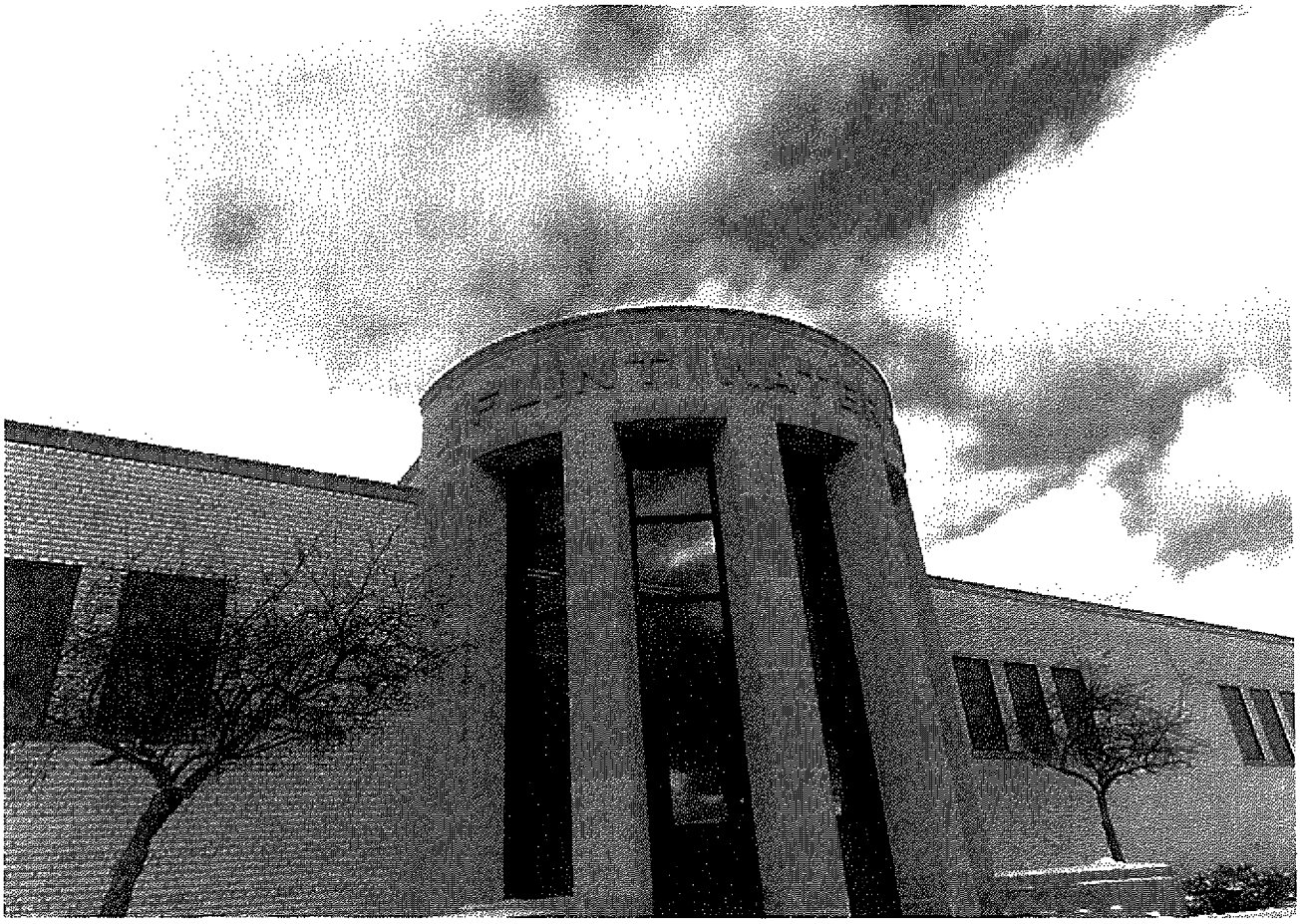

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michigan man •

Let's be clear...this situation is at least partly a result of massive cuts in state revenue sharing, which led the city to take dramatic steps to cut its costs...and now people are paying the price. But hey, we cut taxes at the state level (and our per cap income is still in the bottom 15 in the nation).

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Allison MacArthur-Ruesink •

This has nothing to do with Cost Cuts. The MDEQ is rife with corruption. perhaps the "employee" who had oversight of this facility was also hired and promoted based upon a family connection with a member of the Water Division's "Hot Tub Club" instead of experience and education!? I complained about the problems as far back as the early 2000's, even to Governor Grandholm's husband via Reading for Leading. Nothing was corrected !! Employees who speak out are harassed mercilessly and even worse as in my case. When I did not voluntarily retire after being asked 3x by MDEQ's Jon E. Russell, he conspired and fabricated a case to get rid of me!! I took a polygraph from Forensic Polygraph Services (Mr. Neil Myers) to prove I was telling the truth

but Michigan's corrupt Attorney General Bill Schuette and his equally corrupt Assistant AG Joseph Yung-Kung Ho (P-77390) have denied me any measure of Justice!! It is not a coincidence that the Judge involved with my case Thomas Wilson Jackson County Michigan used to work for the AG's Office. Everything was filed in a timely manner!! The MDEQ have even refused my receiving copies of my OWN PERSONNEL FILE! This is Michigan's way of saying "Thanks for 30 years of Service" They pulled this BS 65 days before my 55th birthday so they could deny my collecting my Retirement Benefits before age 60. Does someone have to die before the Bureaucracy cleans its own house?! Read "Well of Lies" about how inept and unqualified public servants who are unqualified or just plain corrupt, can injure innocent people!!

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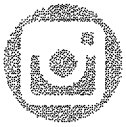
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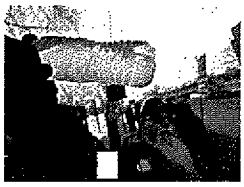
Doctor: Lead seen in more Flint kids since water switch

By Robin Erb, Detroit Free Press 6:44 p.m. EDT September 25, 2015

Number of Flint children with lead poisoning jumps after Flint water switch, says researcher.



(Photo: Ryan Garza, Detroit Free Press)

Flint's ongoing water woes are now associated with an immediate and irreversible danger — possible lead poisoning of some of the city's children, according to a review of blood test results by a Hurley Children's Hospital pediatrician.

"I was hoping not to find anything, but what we found ... is concerning," said Dr. Mona Hanna-Attisha who also leads the pediatric residency program at Michigan State University's College of Human Medicine.

"This is not something you mess around with," she said. "Our population already has so many issues from poverty, from unemployment, from violence."

State officials say their own review of blood test results have not shown the same increase that Hanna-Attisha found. Moreover, water tests have similarly shown lead within federally accepted levels, they say.

Hanna-Attisha examined results from blood samples of Genesee County children taken both before and after the city ended its water contract with the Detroit Water and Sewerage Department (http://www.dwsd.org/)and began pulling water from the Flint River.

The number of Flint children with elevated blood-lead levels — 5 micrograms per deciliter or more — jumped from 2.1% in the 20 months prior to Sept. 15, 2013, to 4.0% between Jan. 1 and Sept. 15 this year. In certain ZIP Codes, the change was even more troubling, she said — jumping from 2.5% of the children tested to 6.3%.

Blood is often drawn by pediatricians as part of routine lead-level testing, especially among children who are on Medicaid. That gave Hanna-Attisha 1,746 test results from Flint children to compare against 1,640 results from elsewhere in Genesee County. Children in Genesee County outside of Flint showed no significant increase in blood-lead levels.

Health officials have said no lead levels are safe (http://www.cdc.gov/nceh/lead/). Lead can lead to serious developmental problems, reducing a child's IQ and causing serious behavioral and emotional problems. Though levels can fall in individuals over time, the damage is permanent.

If Hanna-Attisha's analysis is correct, this upward trend in Flint interrupts years of progress in reducing dangerous blood-lead levels.

State data show that the percentage of children with elevated blood lead levels have been falling for years. In fact in 2013, 3.6% of Flint children younger than 6 had elevated blood-lead levels, compared with the state-wide rate of 3.9%.

Though Hanna-Attisha's review didn't try to determine cause, "we can't think of another reason" for the trend other than the change in Flint's water source.

The review is sure to ratchet up tension in Flint.

In 2014, city officials ended the city's contract (/story/news/local/michigan/2015/01/22/water-woes-latest-hit-flint/22193291/) with the Detroit Water and Sewerage Department (http://www.dwsd.org/), saying that water costs were too high. They opted instead to pull from the Karegnondi Water Authority, which is building a system to supply Genesee County with water pulled from Lake Huron. In the long run, this will mean lower water costs, officials have said.

But until the new system comes online in 2016, Flint is temporarily pulling water from the Flint River. Since it made the switch, residents have complained that the water smells, is discolored and makes them sick.

Soon after the switch, tests indicated the presence of coliform bacteria, which can suggest the presence of other disease-carrying pathogens. The water was then treated with disinfectants, and city officials maintain the water is safe.

The question is not that whether there is a higher level of lead in water from the Flint River — it's that river water may be more corrosive as it travels through lead pipes on residential properties and in homes, said Brad Wurfel, a spokesman for the Michigan Department of Environmental Quality. About 15,000 of the 40,000 Flint customers have lead pipes connecting to the city system, he said.

But he said testing has shown that lead levels in the Flint water system — both before and after the switch in 2014 — have been under the acceptable limit of 15 parts per billion during every three-year testing cycle since 1992. Additionally, two rounds of supplemented tests since the system switch put

lead levels at 6 parts per billion and then at 11 parts per billion — a change that Wurfel said fits in line with previous fluctuations.

Congressman Dan Kildee, a Flint Democrat, called state and local testing "lackluster."

For one thing, Flint residents collect samples, and there are concerns that there are too few samples and that they represent only some parts of the city. And Wurfel confirmed that about 60 bottles of water samples were turned in by citizens in the last round of testing, even though 200 bottles were sent out.

In the best of circumstances — with enough sampling and previous clean tests of water — citizen sampling might be adequate. But, in Flint — where there's a major change in the system that some residents say have led to health problems, "it seems to be a much higher standard would apply," Kildee said.

In addition to water testing, Wurfel a said state public health officials have reexamined results of blood-lead level testing among Flint children. In short, that data doesn't show the same upward trend that Hanna-Attisha's found, he said.

Wurfel said environmental officials aren't taking the matter lightly, and they realize the water system is in "dire" need of an overhaul. They've requested a meeting with U.S. Environmental Protection Agency authorities to "review protocols" to make sure the state's testing is adequate.

"Lead is serious. Lead builds up. Lead effects children. It's not something we take lightly," he said. "We're confident with what we've done, but we know there are concerns."

Angela Minicuci, a spokeswoman for the Michigan Department of Health and Human Services, any increase in the past year in blood-lead levels among Flint children is attributed to predicable seasonal spikes.

In the year preceding the change in the water system, 95 Flint children younger than 16, or 2.4% of those tested, had elevated blood-lead levels, according to state data. The following year, 123 children, or 3.2%, of those tested had elevated blood-lead levels.

There is "cause for concern in Flint," but it cannot be attributed to the water, she said.

Contact Robin Erb: rerb@freepress.com (mailto:rerb@freepress.com) or 313-222-2708. Follow her on Twitter @Freephealth. (https://twitter.com/FreepHealth)

Free Press staff writer Kristi Tanner contributed to this report.

Lead's toll (https://www.nlm.nih.gov/medlineplus/ency/article/002473.htm) on children:

Lead can affect many parts of the body, and is most harmful when there is repeated exposure, even to small amounts. Even low levels of lead exposure can harm a child's mental development, and the problems worsen as blood-lead levels get higher.
The younger the child, the more harmful the exposure; unborn children are the most vulnerable, according to the National Institutes of Health.

Among possible complications:

- Behavior or attention problems
- Failure at school
- Hearing problems
- Kidney damage
- Reduced IQ
- Slowed body growth

Very high levels of lead may cause vomiting, a staggering walk, muscle weakness, seizures, or coma.

For more information, visit www.cdc.gov. Search "lead poisoning."

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Statesman Tribune

High amount of lead found amid Flint children while switching waters

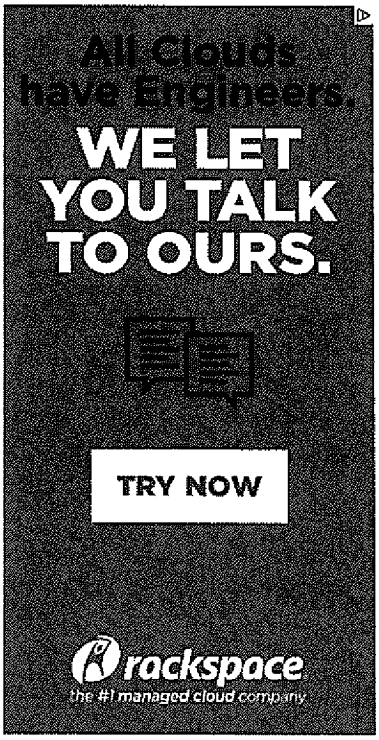
SEPTEMBER 27, 2015 BY DAVID BRYAN IN HEALTH 0 COMMENT

t's exhausting to know the resounding yawn that appears to have emanated .from the governor's workplace, following information that an growing share of Flint children have been lead poisoned after a change within the metropolis's water provide.

A spokeswoman for the Michigan Division of Well being and Human Providers despatched a Free Press knowledge analyst a chart she claimed would refute a report issued by a Hurley Medical Heart researcher, who discovered that because the metropolis began pumping water from the Flint River final April, the share of Flint youngsters with elevated blood-lead ranges has greater than doubled in some ZIP codes.

In reality, the state's information helps the Hurley researcher's declare — the variety of children with lead poisoning had been falling in Flint and throughout the state, till the water change. Now it is rising.

A spokeswoman for Gov. Rick Snyder wrote in an e-mail that the Hurley knowledge had been "spliced and diced," a suggestion that it's one thing apart from correct — though the state's personal knowledge bolsters the Hurley report.



And officers throughout the administration have hastened to insist that Flint's water is protected and to recommend that though printed reviews say Michigan Division of Environmental High quality information present elevated lead ranges in Flint's water, there's no motive to suspect that has prompted extra Flint children to undergo from lead poisoning. And thus far, none of it has it spurred them to motion.

However here is the scenario: There's extra lead in Flint's water than there was. And extra Flint youngsters have lead of their blood, one thing that results in severe, irreversible behavioral and developmental issues.

The way it occurred

The Metropolis of Flint determined in 2013 to affix the brand new Karegnondi Water Authority, together with Genesee, Sanilac and Lapeer counties. That system will not be full till 2016. Within the interim, the town — below former emergency supervisor Darnell Earley — opted to pump its water from the Flint River, as a substitute of constant to buy it from the Detroit Water and Sewerage Division — partly, state officers say, as a result of DWSD deliberate to lift its charges for a brief-time period contract. Town thought-about mixing Lake Huron and Flint River water, however finally selected to tug water from the Flint River alone. Genesee County, in distinction, will proceed to buy its water from DWSD whereas the brand new system is below building.

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Researchers say that Flint River water, extra corrosive than the Lake Huron water pumped by the Detroit Water and Sewerage Division, is leaching lead from the town's ageing infrastructure into the water provide.

The town, and its residents, need assistance. Within the close to time period, residents — particularly residents with formulation-fed infants, whose diets are composed virtually fully of water — residing in poverty want help to buy bottled water or filtration programs. And town wants to think about its lengthy-time period choices, particularly, whether or not to reconnect to DWSD till the Karegnondi system is full.

That would not be a easy course of. Former Flint EM Darnell Earley, now EM for Detroit Public Colleges, wrote in an e-mailed assertion that he was not concerned within the determination to make use of river water, though it occurred throughout his tenure. He was additionally EM when a 9-mile part of pipe was bought to Genesee County, a call he wrote was within the works earlier than his appointment, which means the town cannot reconnect to the Detroit system with out the cooperation of Genesee County.

Neither is the upper value of shopping for water from DWSD — about $1.5 million a month — within the metropolis's price range, Flint Mayor Dayne Walling mentioned. The town, which emerged from state oversight this yr, would want the approval of its transitional advisory board to extend its water price range.

Flint, by the way in which, is broke.

U.S. Rep. Dan Kildee and state Senate Majority Chief Jim Ananich, each Flint Democrats, have pledged to deliver monetary and sensible help to the district.

For now, Walling mentioned, Flint's water therapy plant will start so as to add anticorrosive brokers to the Flint River water, which can take weeks to affect the water provide.

If I lived in Flint, I might be mad. If I had been a Flint mum or dad, with a little one who'd spent the final 12 months and a half ingesting lead-contaminated water, I might be in despair.

We're speaking a few public well being disaster — one that would have been prevented.

Whose fault is it?

Throughout their tenures, emergency managers are the last word authority within the cities they serve.

And so the accountability for Flint's water lies, finally, with Snyder, and the emergency managers he appointed — and it's Snyder who should come to Flint's rescue. Walling says Flint's residents want funds for instant aid, however that the town wants grants to begin to improve its growing older, lead-ridden water infrastructure.

Snyder hasn't hesitated to nominate or retain emergency managers in struggling cities throughout the state, a stance the Free Press Editorial Board has largely supported, with one caveat: Emergency managers need to make issues higher.

That's the premise on which the emergency supervisor legislation is based. Cities are the creation of the state. The state has a accountability to look after the well being and welfare of its residents, and typically, cities face challenges not fixable on the native degree. In these instances, the state should step in.

That is actually the case in Flint, which has suffered from the identical lack of inhabitants — and tax base — as Detroit, however with fewer property with which to leverage a passable consequence.

In these circumstances, the Free Press editorial board has argued, the state has a accountability to behave, to revive some fiscal stability, and thus service supply and high quality of life for residents.

That is the catch.

It would be straightforward to stability any metropolis's finances: Lay off all of the cops, promote all of the ambulances, liquidate town parks. However that would not make life higher for residents. That is the steadiness emergency managers should be conscious of — value financial savings versus high quality of life. Spending cuts versus service supply. A metropolis's backside line cannot be revenue-pushed.

That is the evident weak spot within the emergency supervisor legislation, and it on full show in Flint.

Snyder spokeswoman Sara Wurfel stated the state signed off on the swap on the behest of Walling and the Flint Metropolis Council, and solely "with severe reservations."

That is not precisely how Walling remembers it.

"I didn't assist it come what may," he mentioned. "It wasn't my resolution. I had lots of issues about it that I raised internally, however the funds was in place ... I had loads of considerations about it, however when it was determined that was the choice ... I didn't protest."

When the Flint Metropolis Council voted this 12 months to reconnect to the Detroit water system, then-emergency supervisor Jerry Ambrose known as its resolution "incomprehensible": "Water from Detroit isn't any safer than water from Flint," Ambrose stated, as reported within the Flint Journal.

It is fairly clear that is not true. It isn't clear what anybody from the State of Michigan is ready to do about it.

Sixteen months in the past, Earley and Walling celebrated the town's departure from DWSD, elevating glasses of Flint River water, ready to toss them again, with a toast that strikes a hole word at present: Here is to Flint.

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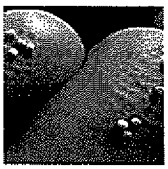
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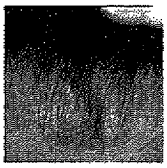
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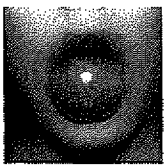
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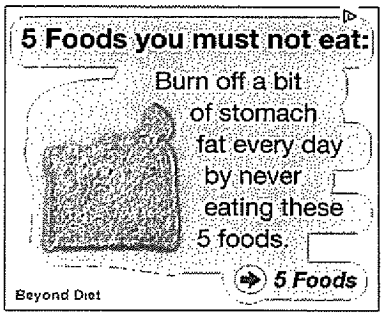

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FOIA Coordinator City of Flint Department of Law
1101 S. Saginaw Street, 3rd Floor
Flint, MI 48502
Fax: (810) 232-2114
Email: ajones@cityofflint.com

Dear FOIA coordinator,

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1. All documents the City of Flint, or its agents, has in its possession, including correspondence, related to any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.
2. All documents the City of Flint, or its agents, has in its possession, including correspondence, related to any communications between the Michigan Department of Environmental Quality, or its agents, and/or the Michigan Department of Treasury, or its agents, regarding any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.
3. All documents the City of Flint has in its possession, including correspondence, related to any communications between the City of Flint of Treasury, or its agents, and the Office of the Governor of the State of Michigan, or its agents, regarding any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.

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Sincerely,

Phil Phelps
819 Main Street
Unit A
Flushing, MI 48433

Michigan Department of Treasury
Attn. FOIA Coordinator
P.O. Box 30716
Lansing, MI 48909

MIStateTreasurer@michigan.gov

Dear FOIA coordinator,

This letter is a request for records under the Freedom of Information Act, MCL 15.231 et seq.

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Sincerely,

Phil Phelps
819 Main Street
Unit A
Flushing, MI 48433

FOIA Coordinator
Department of Environmental Quality
P.O. Box 30457
Lansing, MI 48909-7957
Phone: 800-662-9278

deqfoia@michigan.gov

Dear FOIA coordinator,

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1. All documents the Michigan Department of Environmental Quality, or its agents, has in its possession, including correspondence, related to any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.
2. All documents the Michigan Department of Environmental Quality, or its agents, has in its possession, including correspondence, related to any communications between the Michigan Department of Environmental Quality, or its agents, and the Michigan Department of Treasury, or its agents, regarding any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.
3. All documents the Michigan Department of Environmental Quality has in its possession, including correspondence, related to any communications between the Michigan Department of Environmental Quality, or its agents, and the Office of the Governor of the State of Michigan, or its agents, regarding any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.

I am enclosing a check in the amount of $50 as a good faith deposit to cover a portion or all of the cost of these items. If the amount exceeds $50, please contact me by phone at 810-223-7034, to discuss the balance and the basis for the amounts charged beyond $50. If the amount is less than $50 please refund the balance to this office.

Sincerely,

Phil Phelps
819 Main Street
Unit A
Flushing, MI 48433

EXHIBIT O

City: Keep original and provide copy of both sides, along with Public Summary, to requestor at no charge.

City of Flint
1101 S. Saginaw Street
Flint, Michigan 48503
Fax: (810) 232-2114

Denial Form

Notice of Denial of FOIA Request

Michigan Freedom of Information Act, Public Act 442 of 1976, MCL 15.231, *et seq.*

Request No.: **15-0664** Date Received: **Sept 10, 2015** Check if received via: Email ☐ Fax ☐ Other Electronic Method

Date of This Notice: **Sept 14, 2015** Date delivered to junk/spam folder: _____

(Please Print or Type) Date discovered in junk/spam folder: _____

Name **Phil Phelps**	Phone
Firm/Organization	Fax
Street **819 Main Street Unit A**	Email
City **Flushing** State **MI**	Zip **48433**

Record(s) You Requested: *(see attached copy of original request)*

Your request has been X **Denied** OR ☐ **Granted in part and denied in part.** Please refer to this form for an explanation. If you have any questions regarding this denial, contact Althea Jones at ajones@cityofflint.com, by telephone at (810) 766-7146, or by fax at (810) 232-2114.

Reason for Denial or Partial Denial:

Disclosure of the following information is denied for the following reason(s):

X 2. The records which you have requested **do not exist** under the name given by the requester or by another name reasonably known to this public body or are not retained by this public body in the performance of an official function. This is a certification of their non-existence. **No Records – Requested documents do not exist. Attached please find your check for $20.00.**

The City of Flint FOIA Procedures and Guidelines and Written Public Summary are available at the City's website at:

www.cityofflint.com/legal-2/foia/

Notice of Requestor's Right to Seek Judicial Review

You are entitled under Section 10 of the Michigan Freedom of Information Act, MCL 15.240, to appeal this denial to the Mayor or to commence an action in the Circuit Court to compel disclosure of the requested records if you believe they were wrongfully withheld from disclosure. If, after judicial review, the court determines that the city has not complied with MCL 15.235 in making this denial and orders disclosure of all or a portion of a public record, you have the right to receive attorneys' fees and damages as provided in MCL 15.240. *(See back of this form for additional information on your rights.)*

Signature of FOIA Coordinator: Althea Jones **Date:** 9-14-15

FREEDOM OF INFORMATION ACT (EXCERPT)
Act 442 of 1976

Opt-Out:

15.240.amended Options by requesting person; appeal; actions by public body; receipt of written appeal; judicial review; civil action; venue; de novo proceeding; burden of proof; private view of public record; contempt; assignment of action or appeal for hearing, trial, or argument; attorneys' fees, costs, and disbursements; assessment of award; damages.
Sec. 10.
(1) If a public body makes a final determination to deny all or a portion of a request, the requesting person may do 1 of the following at his or her option:

(a) Submit to the head of the public body a written appeal that specifically states the word "appeal" and identifies the reason or reasons for reversal of the denial.

(b) Commence a civil action in the circuit court, or if the decision of a state public body is at issue, the court of claims, to compel the public body's disclosure of the public records within 180 days after a public body's final determination to deny a request.

(2) Within 10 business days after receiving a written appeal pursuant to subsection (1)(a), the head of a public body shall do 1 of the following:

(a) Reverse the disclosure denial.

(b) Issue a written notice to the requesting person upholding the disclosure denial.

(c) Reverse the disclosure denial in part and issue a written notice to the requesting person upholding the disclosure denial in part.

(d) Under unusual circumstances, issue a notice extending for not more than 10 business days the period during which the head of the public body shall respond to the written appeal. The head of a public body shall not issue more than 1 notice of extension for a particular written appeal.

(3) A board or commission that is the head of a public body is not considered to have received a written appeal under subsection (2) until the first regularly scheduled meeting of that board or commission following submission of the written appeal under subsection (1)(a). If the head of the public body fails to respond to a written appeal pursuant to subsection (2), or if the head of the public body upholds all or a portion of the disclosure denial that is the subject of the written appeal, the requesting person may seek judicial review of the nondisclosure by commencing a civil action under subsection (1)(b).

(4) In an action commenced under subsection (1)(b), a court that determines a public record is not exempt from disclosure shall order the public body to cease withholding or to produce all or a portion of a public record wrongfully withheld, regardless of the location of the public record. Venue for an action against a local public body is proper in the circuit court for the county in which the public record or an office of the public body is located has venue over the action. The court shall determine the matter de novo and the burden is on the public body to sustain its denial. The court, on its own motion, may view the public record in controversy in private before reaching a decision. Failure to comply with an order of the court may be punished as contempt of court.

(5) An action commenced under this section and an appeal from an action commenced under this section shall be assigned for hearing and trial or for argument at the earliest practicable date and expedited in every way.

(6) If a person asserting the right to inspect, copy, or receive a copy of all or a portion of a public record prevails in an action commenced under this section, the court shall award reasonable attorneys' fees, costs, and disbursements. If the person or public body prevails in part, the court may, in its discretion, award all or an appropriate portion of reasonable attorneys' fees, costs, and disbursements. The award shall be assessed against the public body liable for damages under subsection (7).

(7) If the court determines in an action commenced under this section that the public body has arbitrarily and capriciously violated this act by refusal or delay in disclosing or providing copies of a public record, the court shall order the public body to pay a civil fine of $1,000.00, which shall be deposited into the general fund of the state treasury. The court shall award, in addition to any actual or compensatory damages, punitive damages in the amount of $1,000.00 to the person seeking the right to inspect or receive a copy of a public record. The damages shall not be assessed against an individual, but shall be assessed against the next succeeding public body that is not an individual and that kept or maintained the public record as part of its public function.

History: 1976, Act 442, Eff. Apr. 13, 1977 ;-- Am. 1978, Act 329, Imd. Eff. July 11, 1978 ;-- Am. 1996, Act 553, Eff. Mar. 31, 1997 ;-- Am. 2014, Act 563, Eff. July 1, 2015

RECEIVED
SEP 10 2015
CITY ATTORNEY'S OFFICE

FOIA Coordinator City of Flint Department of Law
1101 S. Saginaw Street, 3rd Floor
Flint, MI 48502
Fax: (810) 232-2114
Email: ajones@cityofflint.com

Dear FOIA coordinator,

This letter is a request for records under the Freedom of Information Act, MCL 15.231 et seq.

The records I am requesting are:

1. All documents the City of Flint, or its agents, has in its possession, including correspondence, related to any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.
2. All documents the City of Flint, or its agents, has in its possession, including correspondence, related to any communications between the Michigan Department of Environmental Quality, or its agents, and/or the Michigan Department of Treasury, or its agents, regarding any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.
3. All documents the City of Flint has in its possession, including correspondence, related to any communications between the City of Flint of Treasury, or its agents, and the Office of the Governor of the State of Michigan, or its agents, regarding any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.

I am enclosing a check in the amount of $20 as a good faith deposit to cover a portion or all of the cost of these items. If the amount exceeds $20, please contact me by phone at 810-223-7034, to discuss the balance and the basis for the amounts charged beyond $20. If the amount is less than $20 please refund the balance to this office.

Sincerely,

Phil Phelps
819 Main Street
Unit A
Flushing, MI 48433

Opt-Out:

EXHIBIT P

Keith,
Just got this email while we were on the phone. The DEQ must have talked to Flint and decided that since Flint is not turning over documents that they are not going to either after they they both told me that they had documents to share.

Thanks,
Phil

----- Forwarded Message -----
From: DEQFOIA <DEQFOIA@michigan.gov>
To: "Phillip Phelps (pphelps277@yahoo.com)" <pphelps277@yahoo.com>
Sent: Monday, September 28, 2015 11:59 AM
Subject: Request for Disclosure of Official Files

Mr. Phil Phelps
819 Main Street, Unit A
Flushing, MI 48433

)ear Mr. Phelps:

SUBJECT: Request for Disclosure of Official Files – **Executive Division and Water Resources Division**

This notice is issued in response to your request for information under the Freedom of Information Act, 1976 PA 442, as amended (FOIA), received on September 8, 2015. You have requested the following information: "Any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint, etc." (FOIA 6422-15).

The purpose of the FOIA is to provide the public with access to existing, nonexempt public records of public bodies. Your request to examine or receive a copy of the documents described above is denied.

To the best of this public body's knowledge, information, and belief, the public record does not exist under the name given by the requester, or by another name reasonably known to the public body.

Under section 10 of the FOIA, the DEQ is obligated to inform you of the following:

1) Appeal this decision in writing to the Director of the Department of Environmental Quality, P.O. Box 30473, Lansing, Michigan 48909-7973. The writing must specifically state the word "appeal," and identify the basis for which the disclosure determination should be reversed. The Director of the DEQ, r his/her delegated designee, must respond to the appeal within 10 days of its receipt. Under unusual circumstances, the time for response to the appeal may be extended by 10 business days.

2) Commence a civil action in circuit court within 180 days after the date of the final determination to deny the request. If you prevail in such an action, the court is to award reasonable attorney fees, costs, and disbursements, and possible damages.

Susan Vorce, FOIA Coordinator
Department of Environmental Quality
800-662-9278
deqfoia@michigan.gov

The DEQ strives to continually improve its customer service to FOIA requesters. To provide input for improvements to the FOIA process, please complete this survey: https://www.surveymonkey.com/s/foiaprocess

EXHIBIT Q

GONGWER Michigan
The Capitol Record Since 1906

Volume #54, Report #195, Article #1--Thursday, October 1, 2015

Senate Activity Report | House Activity Report

Pressure Mounts On Flint Water; Snyder Prepares Actions

A coalition of Flint and state organizations asked the U.S. Environmental Protection Agency on Thursday to order a switchover of the Flint water system with the Detroit Water and Sewerage system, in what is one of the most striking actions in the controversy. The demand came as state officials plan to announce a series of actions on Flint on Friday dealing with the water problems in the city.

One legislator - who also complained he had been denied documents from the state dealing with the switch from the Detroit system to using water from the Flint River (a state official said the wrong documents had been requested) - said there had been a general discussion, but no specifics about what Mr. Snyder might announce. **Rep. Phil Phelps** (D-Flushing) said he expected the state would provide more filters to residents to help curb lead in the water. Filters will be helpful, Mr. Phelps said, but not enough.

Governor Rick Snyder will not be at the event, to be held at Kettering University, but Flint Mayor Dayne Walling, along with Environmental Quality **Director Dan Wyant**, Health and Human Services **Director Nick Lyon**, Urban Initiatives Director Harvey Hollins and the state's chief medical officer, Eden Wells, will speak on the initiatives being pursued.

The presentation will be at 1:30 p.m.at the university's Innovation Center, 1300 Bluff Street.

The controversy over the water in Flint has grown exponentially since indications that lead levels, caused mainly by antique pipes and their connections, were elevated in children who were tested. Researchers said they could not absolutely say the elevated levels were from the water, but the measures showed the increase since the city made the switch. Also on Thursday, it was announced that the city had received donations to provide some 5,000 water filters to help contain the lead.

Prior to the discovery about elevated lead levels, the controversy over the system dealt largely with the smell and taste of the water. Flint switched from using Detroit water to drawing water from the Flint River in 2014 as the city prepared to build its own system that would draw water from Lake Huron. The switch was made largely because Flint and Detroit could not agree on a short-term contract to use the water, and the city, under a state-appointed emergency manager because of financial problems, did not want to pay the cost of Detroit water.

In a press conference on Wednesday, Mr. Snyder acknowledged that in making the switch, not all factors were probably considered.

The request for the EPA to order both the city and state to make the switch to Detroit water came with a variety of city and state groups, including the Concerned Pastors for Social Action, the Flint Water Study

Team, the Michigan Nurses Association, the NAACP-Michigan State Conference, the Natural Resources Defense Council and the Michigan branch of the American Civil Liberties Union, getting involved.

The request charged that neither the state nor Flint were doing enough to fix the problem and urged that both be ordered to immediately have Flint's water system reconnected with the Detroit system, and that city residents be provided with a free source of water that meets EPA standards.

Mr. Phelps, meanwhile, complained that the Department of Environmental Quality denied and the Department of Treasury ignored a Freedom of Information Act request for documents related to the city's switch from Detroit water to river water. Anytime there is a change in water systems of the course of water, the community has to apply to the state for that authority.

But Brad Wurfel, with the DEQ, said Flint did not have to file that application because the city had always listed the Flint River as its back-up should it need it for a water supply.

However, there are other documents that are available - to Mr. Phelps or anyone - dealing with the process the city and state took preparing for the switch, Mr. Wurfel said.

Mr. Phelps said a DEQ official contacted him and said there were documents available and that they would be sent to him. The official asked that he drop his FOIA request, Mr. Phelps said.

On the advice of his lawyers, Mr. Phelps said he did not drop the request. But he had also asked the department for any documents that might have to do with the switch. After his request was denied, he received several documents dealing with the system, but the documents were from 2007 and did not have to do with the switch.

Mr. Phelps was surprised by the refusal and was planning what steps to next take.

In terms of what the state should do to help in the situation, Senate **Minority Leader Jim Ananich** (D-Flint) told reporters after session on Thursday that he thought the state should first help with distributing filters to residents, especially those who may be most vulnerable, listing pregnant women, children, women that are nursing, those with immune system issues and the elderly among them.

"That should be done immediately," Mr. Ananich said. "I think we need to have corrosion control put in place as quickly as possible. Unfortunately, I think we need some independent, outside testers to come in and develop the confidence level that's just not there with traditional people in place. And I think we need to have a serious look at reconnecting with Detroit. I think the state needs to help us find a new source of water."

He said he would reserve judgment about how well the state has responded to the situation until after the administration makes its recommendations and remains unsure about any estimates on how much it might cost for Flint to reconnect to Detroit water.

"There's been some negotiations going on at the local level, but I think it's important to get the real cost because it's a public health issue. And I'm hopeful we'll find that. I would hope that all folks, with an issue of this magnitude, would not try to gouge a community that's been suffering the way they are," Mr. Ananich said. "I think we need to all, at the state level, make sure people are negotiating in good faith."

And Senate **Majority Leader Arlan Meekhof** (R-West Olive) said he is unsure what the state's role should be in terms of helping Flint. The Senate did, on Thursday, include a $100 placeholder to deal with Flint's water

crisis in an appropriations supplemental it passed, but that was to keep the conversation going, Mr. Ananich said (see separate story).

"I don't know that we really have a solution there yet," Mr. Meekhof said after session. "We could use revolving funds maybe. I don't think the city of Flint is in as bad of financial trouble as the city of Detroit, so if they need to bond for something, they would have assets with which to bond and maybe fix the problem. There's lots of options that are out there."

Back To Top >>

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Gongwer News Service: The Capitol Record Since 1906
124 West Allegan Street, Suite 1200, Lansing, Michigan, 48933
Phone: 517-482-3500 **Fax:** 517-482-4367 **Email:**gongwer@gongwer.com

EXHIBIT R

B9 (Rev. 04-15)

STATE OF MICHIGAN
DEPARTMENT OF TREASURY
LANSING

RICK SNYDER
GOVERNOR

NICK A. KHOURI
STATE TREASURER

September 29, 2015

Mr. Phil Phelps
819 Main Street
Unit A
Flushing, MI 48433

Dear Mr. Phelps:

This notice is issued in response to your request dated September 4, 2015, which you submitted under the Freedom of Information Act (FOIA), MCL 15.231 *et seq*. Your request was received in the Department of Treasury (Department) by electronic mail on September 8, 2015. As set forth in the Department's September 15, 2015 notice, a statutory extension of time to respond was taken through September 29, 2015.

You have requested records which you describe as: 1) All documents the Michigan Department of Treasury, or its agents, has in its possession, including correspondence, related to any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity; 2) All documents the Michigan Department of Treasury, or its agents, has in its possession, including correspondence, related to any communications between the Michigan Department of Environmental Quality, or its agents, and the Michigan Department of Treasury, or its agents, regarding any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity; 3) All documents the Michigan Department of Treasury has in its possession, including correspondence, related to any communications between the Michigan Department of Treasury, or its agents, and the Office of the Governor of the State of Michigan, or its agents, regarding any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.

To the extent we understand your description, your request is denied. After a thorough search of Department records, to the best of the undersigned's knowledge, information and belief, no such records as you describe, or by any other name reasonably known to the Department, regarding any "waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity," exist in the Department of Treasury.

Opt-Out:

In an effort to be cooperative, you may wish to contact the Department of Environmental Quality as they may have records responsive to your request.

As to the denial of your FOIA request, the Department is obligated to inform you that under section 10 of the FOIA, MCL 15.240 you may do the following:

1. Appeal this decision in writing to the State Treasurer, Michigan Department of Treasury, P.O. Box 30716, Lansing, MI 48909. The writing must specifically state the word "appeal" and must identify the reason or reasons you believe the denial should be reversed. The Department must respond to your appeal within 10 days of its receipt. Under unusual circumstances, the time for response to an appeal may be extended by 10 business days.

2. File an action in the appropriate court within 180 days after the date of the final determination to deny the request. If you prevail in such an action, the court is to award reasonable attorney fees, costs, and disbursements, and possible damages.

Pursuant to section 4 of the FOIA, MCL 15.234, the Department's FOIA procedures, guidelines and written summary can be found on the Department's website at the following link: http://michigan.gov/treasury/0,4679,7-121-72699-357926--,00.html.

Sincerely,

Carla M. Robert

Carla M. Robert
FOIA Coordinator

From: Wurfel, Sara (GOV)
Sent: Monday, October 12, 2015 2:24 PM
To: Dennis Muchmore; Beth Clement; Agen, Jarrod (GOV); Redford, James (GOV); Hollins, Harvey (GOV)
Cc: Wendy Wisniewski; Thomet, Ruth (GOV)
Subject: FW: Comment sought on Rep. Phelps Files Suit Against State of Michigan, City of Flint
Attachments: Phelps_Verified FOIA Complaint.pdf

Importance: High

Please see below. Making sure I understand full back story on this, but FYI.

Let me know if anyone has additional background or insight, otherwise tracking down with DEQ.

From: Gary Ridley [mailto:GRIDLEY@mlive.com]
Sent: Monday, October 12, 2015 1:39 PM
To: Bitely, Andrea (AG) <BitelyA@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Comment sought on Rep. Phelps Files Suit Against State of Michigan, City of Flint

Hi,
I wanted to see if the state had any comment in response to this lawsuit.

Thanks.

--
Gary Ridley | The Flint Journal-MLive Media Group | 810-280-9516 | gridley@mlive.com

---

From: Rosemary Jones [mailto:RJones@house.mi.gov]
Sent: Monday, October 12, 2015 1:33 PM
To: Rosemary Jones
Subject: Rep. Phelps Files Suit Against State of Michigan, City of Flint

FOR IMMEDIATE RELEASE
Monday, Oct. 12, 2015

Contact: Rep. Phil Phelps
Phone: (517) 373-7515

Rep. Phelps Files Suit Against State of Michigan, City of Flint

State, city failed to release documents sought in FOIA request

LANSING — State Representative **Phil Phelps** (D-Flushing) announced earlier today that he is filing suit against the state of Michigan and the city of Flint to force them to release public documents he requested last month under the Freedom of Information Act (FOIA).

"It's an absolute shame that I have to file suit to force our government to comply with the law," Phelps said. "I was shocked at their response, because prior to receiving the denials, officials from both the city and state had told me that not only did documents exist, but they would be happy to share them with me."

On Sept. 4 of this year, Phelps requested that the city and state turn over all documents and emails regarding the permit and application process that Flint's emergency manager was required to complete before the Michigan Department of Environmental Quality gave the go ahead to the city to start using the Flint River as its source of drinking water. Late last month, the state and the city both denied Phelps' request, saying that no such documents exist.

In March and April of 2014, officials from both the city and state were also quoted in several articles on Mlive.com, making comments about the permit application process for Flint to switch its source of drinking water from Detroit's system to the Flint River.

"I want to know what these officials knew about the safety and quality of the river water before the switch was made. Judging by their response and recent actions, it almost seems they knew a lot more than they are letting on to," Phelps said. "Flint residents deserve better than this, they deserve to know the truth about the decisions that were made, and if I have to fight this in court to get the truth, so be it."

###

Rosie Jones
Deputy Press Secretary
Michigan House Democrats
O: 517.373.3731
C: PPI
housedems.com

STATE OF MICHIGAN
IN THE CIRCUIT COURT FOR THE COUNTY GENESEE

PHIL PHELPS,

Plaintiff,

v

CITY OF FLINT,

Defendant.

Case No.
Hon.

MILLER COHEN, P.L.C.
Keith D. Flynn (P74192)
Attorneys for Plaintiff
600 W. Lafayette, 4th Fl.
Detroit, MI 48226
(313) 964-4454 Phone
kflynn@millercohen.com

VERIFIED FREEDOM OF INFORMATION ACT COMPLAINT

There is no other pending or resolved civil action arising out of the transaction or occurrence alleged in the Complaint against Defendant.

Keith D. Flynn

Plaintiff **PHIL PHELPS**, ("Plaintiff"), by and through his attorneys, **MILLER COHEN, P.L.C.**, for his Freedom of Information Act Complaint, states as follows:

Since Spring 2014, families in the City of Flint have been exposed to a significant threat to their health and well-being caused by the decision to switch the City's water supply from Lake Huron water to Flint River water. This decision was made by the State's appointed Emergency Manager in the name of saving money. In the process, the health and welfare of Flint residents has been carelessly jeopardized with thousands of residents being exposed to contaminants, including E.coli, disinfectant byproduct, and, most recently, lead.

MILLER COHEN, P.L.C.
ATTORNEYS AND COUNSELORS AT LAW
600 WEST LAFAYETTE BLVD.
DETROIT, MICHIGAN 48226-0840
(313) 964-4454

MILLER COHEN, P.L.C.
ATTORNEYS AND COUNSELORS AT LAW
600 WEST LAFAYETTE BLVD.
DETROIT, MICHIGAN 48226-0840
(313) 964-4454

This threat is the very reason why the Michigan Department of Environmental Quality (DEQ) exists—to protect the public by insisting upon compliance with federal and state environmental regulations. The DEQ is supposed to work with suppliers of water, such as the City of Flint, and approve or reject applications for permits to alter existing water systems, including changes that are made to the source of water. MCL § 325.1004(6). Part of this process requires localities to provide the DEQ with detailed technical information evaluating any impact that proposed alterations might have on the quality of water provided to the public. *Id.*

State Representative Phil Phelps issued information requests under the Freedom of Information Act (FOIA) to the Department of Environmental Quality (DEQ), the Michigan Department of Treasury, and the City of Flint. Representative Phelps wants to see if the State and City knew in advance about the potential hazards now faced by Flint residents. He wants to see what had been done to avoid this disaster. He requests documents concerning evaluations of the quality of water in the Flint River, documents specifically pertaining to the application and permit process, and other documents relating to the change in the City's water source.

In public statements, State and City officials have discussed documents addressing the change from Detroit to Flint River water as Flint's primary source of water. However, in response to Representative Phelps' FOIA requests, they now deny that such documents exist. The cleanliness of the water is a critical health and safety issue, which must be revealed to the public. The Defendants cannot make public assurances of the existence of documents, only to refuse to turn those documents over.

As a result, Representative Phelps is now forced to file this action, along with another action in the Michigan Court of Claims, seeking to disclose information that the public has the right to know. For those reasons, Plaintiff Phelps seeks an Order from this Court requiring the City to respond to Plaintiff's FOIA requests and seeking costs and attorney fees for having to file this action.

MILLER COHEN, P.L.C.
ATTORNEYS AND COUNSELORS AT LAW
600 WEST LAFAYETTE BLVD.
DETROIT, MICHIGAN 48226-0840
(313) 964-4454

PARTIES, JURISDICTION, AND VENUE

1. This matter arises under the Michigan Freedom of Information Act, MCL § 15.231, *et seq.* ("FOIA").

2. Plaintiff Phil Phelps is the elected State Representative for the 49th State House District. His District includes part of the City of Flint.

3. Defendant City of Flint is a public body as defined in MCL §15.232(d) having custody and control of public records. The City of Flint constitutes a supplier of water for the purposes of the Michigan Safe Drinking Water Act, MCL §325.1001 *et seq.*

4. This Court has jurisdiction over the subject matter of this complaint and venue is proper in this county, pursuant to MCL §15.240(4).

GENERAL ALLEGATIONS

5. Plaintiff incorporates herein by reference each of the preceding paragraphs.

6. Pursuant to MCL § 15.233, Plaintiff, as a member of the public, has the right to inspect, copy, or receive copies of public records of a public body, including records of the City of Flint.

7. For almost fifty years, the City of Flint purchased Lake Huron water from the Detroit Water and Sewerage Department ("DWSD").

8. On June 28, 2013, ground was broken by the Karegnondi Water Authority ("KWA") to build a pipeline to distribute Lake Huron water throughout Genesee County without DWSD.

9. Construction of the pipeline is set to be completed in late 2016.

10. Every community in Genesee County remained with DWSD during the construction of the pipeline with the exception of the City of Flint.

MILLER COHEN, P.L.C.
ATTORNEYS AND COUNSELORS AT LAW
600 WEST LAFAYETTE BLVD.
DETROIT, MICHIGAN 48226-0840
(313) 964-4454

11. Darnell Earley, the Emergency Manger appointed to the City of Flint by Governor Richard Snyder under the Local Financial Stability and Choice Act, MCL §141.1541 *et seq.*, implemented the switch from DWSD water to the Flint River that took place on April 25, 2014.

THE DECISION TO SWITCH FROM DWSD WATER TO FLINT RIVER WATER

12. Prior to switching from DWSD to Flint River water, the City of Flint, in conjunction with the Michigan Department of Environmental Quality and the Michigan Department of Treasury engaged in a process to evaluate the potential of using the Flint River as Flint's primary source of water. (*Exhibit A*, 91-95)

13. Gerald Ambrose, the financial advisor to the emergency manager for the City of Flint at the time, testified that: "There was brief evaluation of whether the City would be better off to simply use the Flint River as its primary source of water over the long term. That was determined not to be feasible." (Id. at 91)

14. Mr. Ambrose went on to testify that the determination that it was not feasible was made by "the emergency management team based on conversations with the MDEQ that indicated they would not be supportive of the use of the Flint River on a long-term basis as a primary source of water." (Id.)

15. Mr. Ambrose also testified in regards to an independent study that was conducted by the State Department of Treasury as to the feasibility of changing the source of water to the Flint River. (Id. at 93-94)

16. Notwithstanding this evaluation, the City of Flint decided to move forward with changing the source of its drinking water to the Flint River until the KWA pipeline was finished.

17. In order to do so, however, the City of Flint was required by the Safe Drinking Water Act to apply for a permit to change the source of water:

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> (6) Before commencing the construction of a waterworks system or an alteration, addition, or improvement to a system, a supplier of water shall submit the plans and specifications for the improvements to the department and secure from the department a permit for construction as provided by rule. Plans and specifications submitted to the department shall be prepared by a professional engineer licensed under article 20 of the occupational code, 1980 PA 299, MCL 339.2001 to 339.2014. A contractor, builder, or supplier of water shall not engage in or begin the construction of a waterworks system or an alteration, addition, or improvement to a waterworks system until a valid permit for the construction has been secured from the department. A contractor, builder, or supplier of water who permits or allows construction to proceed without a valid permit, or in a manner not in accordance with the plans and specifications approved by the department, violates this act. A supplier of water shall not issue a voucher or check or in any other way expend money or provide consideration for construction of a waterworks system unless a valid permit issued by the department is in effect. The department may issue a permit with conditions to correct minor design deficiencies. If eligible, a supplier may request an expedited review of an application for a permit under section 4a.

MCL § 325.1004(6).

18. The Safe Drinking Water Act provides that the DEQ administers the Act and promulgates administrative rules to enforce its requirements. One of those administrative rules defines "alteration" to include "modification of, or addition to, an existing waterworks system, or portion of the system, that affects . . . the source . . . ." Admin. Rule 325.10102.

19. On the DEQ's website, the DEQ provides the application discussed above. (*Exhibit B*)

20. The application requires the submission of highly technical plans and analysis for the alteration of the Water System. (Id.)

21. Failure of a "supplier of water"—which include municipalities—to apply and receive a permit prior to alteration of a Water System violates the Act punishable by a fine of not more than $5,000.00 for each day of violation, or by imprisonment for not more than 1 year, or both. MCL § 325.1021.

22. Prior to switching to the Flint River, it was reported that the City was in the process of applying for such a permit. (*Exhibit C*)

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23. On March 28, 2014, it was reported that the Michigan Department of Environmental Quality halted the City's attempt to move forward with the switch in water source without receiving the permit. (Id.) Steve Busch, the Lansing and Jackson district supervisor for the DEQ, noted that the DEQ had only received "preliminary design plans and preliminary specifications" that the agency had commented on. (Id.)

24. Howard Croft, Flint's Director of Public Works, denied the inadequacy of the plans provided noting that the City had provided "A fully engineered construction package, including all the work to be performed." (Id.) He went on to note that, "The submittal package has been under review for more than 30 days. The city has had ongoing discussions with the DEQ regarding the process and we anticipate a favorable response soon." (Id.)

25. On April 5, 2014, Emergency Manager Earley stated that the final application for the permit was filed with the DEQ noting that "We expect to have the permit early next week." (*Exhibit D*)

26. Sure enough, the very next week, the spokesman for the Department of Environmental Quality (DEQ), Brad Wurfel, was reported on April 10, 2014 as saying that the DEQ issued "a series of construction permits" noting that "They are racing to get all this work done." (*Exhibit E*)

27. The switch to Flint River water took place on April 25, 2014. (*Exhibit F*)

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RESIDENTS OF FLINT ARE EXPOSED TO CONTAMINANTS AFTER THE SWITCH TO FLINT RIVER WATER

28. Since switching to Flint River water, Flint residents have been placed in jeopardy being exposed to substantial threats to their health and safety due to contaminants found in their drinking water.

29. On August 14, 2014, the water tested positive for fecal coliform bacteria, E.coli, leading the City to issue a boil water advisory. (*Exhibit G*)

30. The water once again tested positive on August 19, 2014 with boil water advisories extending into late September 2014. (*Exhibit H*)

31. On January 2, 2015, a new threat to public health and safety was identified. In an effort to eliminate the bacteria, the City increased the chlorine used in the System. Residents began complaining that the water was causing skin rashes and their hair falling out. (*Exhibit I*)

32. Then, on January 2, 2015, the City of Flint officially announced that the level of trihalomethanes (TTHMs)—a byproduct of disinfectant—was higher than the allowable amount provided for in federal law forcing the City to provide notice to residents. (*Exhibit J*)

33. Long term exposure to TTHMs can create liver, kidney, or central nervous system problems, and may increase the risk of cancer, especially amongst those who have severely compromised immune systems such as infants or the elderly. (Id.)

34. Over nine months later, the City was finally able to reduce TTHM levels to the federal limit. (*Exhibit K*)

35. Most recently, in July 2015, Virginia Tech University researchers released the results of their own independent study of Flint's water supply revealing incredibly high amounts of lead far exceeding the allowable limitations of lead content under federal law. (*Exhibit L*)

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36. On September 2, 2015, the researchers at Virginia Tech released another study that compared the DWSD water to the Flint River water (*Exhibit L*) That study concluded that the natural corrosive properties of Flint River water is leaching lead from the City's aging infrastructure. (*Exhibit L*)

37. On September 24, 2015, the results of a subsequent study by Dr. Mona Hanna-Attisha, program director for the pediatric residency at the Hurley Children's Hospital at Hurley Medical Center in Flint were released finding an elevated level of lead in the blood samples of Flint children. (*Exhibit M*) Specifically, the study showed that the number of children in the City with elevated blood levels nearly doubled after the city started using the river. (Id.)

38. According to Dr. Hanna-Attisha: "What we found in our data is concerning." (Id.) Dr. Hanna-Attisha noted that "This is not something you mess around with." (Id.)

REPRESENTATIVE PHELPS SEEKS DOCUMENTS RELATING TO CHANGING THE CITY'S SOURCE OF WATER TO THE FLINT RIVER AND THE CITY AND STATE FAILED TO COMPLY

39. In response to this health crisis, Representative Phelps requested the following records from the Michigan Department of Environmental Quality, the Michigan Department of Treasury, and the City of Flint pursuant to FOIA on September 4, 2015:

1. All documents the [City of Flint/Michigan Department of Treasury/Michigan Department of Environmental Quality], or its agents, has in its possession, including correspondence, related to any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.
2. All documents the [City of Flint/Michigan Department of Treasury/Michigan Department of Environmental Quality], or its agents, has in its possession, including correspondence, related to any communications between the Michigan Department of Environmental Quality, or its agents, and/or the Michigan Department of Treasury, or its agents, regarding any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.

3. All documents the [City of Flint/Michigan Department of Treasury/Michigan Department of Environmental Quality] has in its possess, including correspondence, related to any communications between the [City of Flint of Treasury/Michigan Department of Treasury/Michigan Department of Environmental Quality], or its agents, and the Office of the Governor of the State of Michigan, or its agents, regarding any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.

(*Exhibit N*)

40. On September 4th, Representative Phelps had a face-to-face conversation with Howard Croft, Flint's Director of Public Works, at the Flint City Hall beginning shortly after 3:00pm and ending around 4:20pm. Representative Sheldon Neeley was also present during the meeting.

41. Both Representative Phelps and Neeley asked several questions regarding the switch to Flint River water, the permits and applications surrounding the switch, potential hold ups/delays in the switch due to DEQ's approval process, and correspondence between the City of Flint and the DEQ regarding all of the previous items.

42. Howard Croft said that they did in fact have documents related to those topics and stated that it would be no problem to share them with both Representatives.

43. On September 14, 2015, the City of Flint changed its story. In the City of Flint's formal response to Representative Phelps' FOIA requests dated September 14, 2015, the City has refused to provide those documents. (*Exhibit O*)

44. Contradicting Mr. Croft's earlier assertions as well as statements made to the press in 2014, the City of Flint asserted that no such documents exist:

> The records which you have requested do not exist under the name given by the requester or by another name reasonably known to this public body or are not retained by this public body in the performance of an official functions. This is a certification of their non-existence. No Records—Requested documents do not exist.

(Id.)

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45. The DEQ responded on or about September 16th by telephone indicating that it was DEQ policy to provide copies of documents to members of the State Legislature free of charge and noting that there were several documents that would be sent over to Representative Phelps' office via email, but only if he withdrew his FOIA request.

46. Representative Phelps indicated that he had to contact his attorney to discuss whether he should withdraw the FOIA requests. Since that day, Representative has not received any verbal communication with the DEQ.

47. On September 28, 2015, after Representative Phelps refused to withdraw his FOIA request, the DEQ changed its tone like the City of Flint. (*Exhibit P*)

48. Brad Wurfel, the spokesman for the DEQ stated in an interview with Gongwer that "Flint did not have to file an application because the City has always listed the Flint River as its back-up should it need it for a water supply." (*Exhibit Q*)

49. Obviously, Mr. Wurfel's most recent statement ignores the statements that he, and others, made to the media prior to the switch. They all maintained that Flint was required to file an application for a permit with the DEQ and did in fact file an application that was ultimately approved by the DEQ on or about April 10, 2014.

50. Nonetheless, Mr. Wurfel indicated during that interview that "other documents . . . are available—to Mr. Phelps or anyone—dealing with the process the city and state took preparing for the switch." (Id.) To date, Representative Phelps has not received these other documents.

51. Similarly, the Michigan Department of Treasury denied Representative Phelps' FOIA request on the same grounds as the City of Flint and the DEQ on September 29, 2015. (*Exhibit R*)

52. To date, Representative Phelps' has not received the documents that he requested.

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53. The public has a right to know the degree to which the State knew about or took any action to determine the potential hazards of making this switch, prior to the decision being implemented by the State-appointed Emergency Manager. It is for that reason that Representative Phil Phelps brings this suit to compel the City of Flint to provide the documents requested pursuant to FOIA.

COUNT I

VIOLATION OF THE FREEDOM OF INFORMATION ACT

54. Plaintiff incorporates herein by reference each of the preceding paragraphs.

55. Documents, such as correspondence and communications, relating to any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity constitute public records subject to FOIA.

56. Plaintiff reasonably described the documents that he was seeking.

57. No exemption recognized under FOIA applies to Representative Phelps' requests.

58. The Defendant's denial is wholly without merit as acknowledged by the Defendant's own agents in the past. Defendant failed to perform a good faith effort to conduct a search for the requested records using methods reasonably expected to produce the requested information.

59. Hence, Defendant violated the FOIA, and for the violation, the Defendant should face all fines, costs and fees as pursuant to the FOIA statute, as well as be ordered to immediately tender the information.

60. Due to the Defendant's refusal to respond to the FOIA requests, the Defendant now bears the burden to sustain the reason for its denial. MCL §15.240(4).

61. MCL § 15.240(5) provides that actions commenced pursuant to FOIA "shall be assigned for hearing and trial and for argument at the earliest practicable date and expedited in every way.

WHEREFORE, and for the above-stated reasons, Plaintiff requests that this Honorable Court grant the following relief:

a. Order an expedited hearing as required by MCL § 15.240(5);

b. Order that the Defendant to immediately respond to the FOIA requests of Plaintiff as found in the *Exhibit N* letters;

c. Find that the Defendant made a final determination to deny the FOIA requests, and such determination was in violation of the FOIA and arbitrary and capricious. Thus, Order that the Defendant pay to Plaintiff reasonable attorney's fees, costs and disbursements, and order punitive damages of $5.00;

d. Award all other relief as this Court deems appropriate.

Respectfully submitted,

MILLER COHEN, P.L.C.

By: _____

Keith D. Flynn (P74192)
Attorneys for Plaintiff
600 W. Lafayette, 4th Fl.
Detroit, MI 48226
(313) 964-4454

Dated: October 12, 2015

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VERIFICATION OF THE COMPLAINT

I, Phil Phelps, being first duly sworn, deposes and says that he is authorized to verify this Complaint, that he has read the complaint and based on his knowledge it is true as to its facts and he believes it is true as to its conclusions, to the best of his knowledge and belief.

Dated: _____ _____

PHIL PHELPS

Subscribed and sworn to before me on
this ___ day of October, 2015

_____
_____, Notary Public
_____ County, MI
Acting in _____ County, MI
My Commission expires: _____

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EXHIBIT A

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF MICHIGAN

JOHN WELCH, JUDITH WELCH, KENNETH SPARKS, JR., CAROL SPARKS, SHERRY MURPHY, AND MARK FULKS ON BEHALF OF THEMSELVES AND ALL OTHERS SIMILARLY SITUATED, AND UNITED RETIRED GOVERNMENTAL EMPLOYEES (URGE), A MICHIGAN NONPROFIT CORPORATION,

Plaintiffs,

CASE NO: 2:12-cv-13808-AJT-MKM

vs

HON. ARTHUR J. TARNOW

MICHAEL BROWN, INDIVIDUALLY AND IN HIS OFFICIAL CAPACITY AS EMERGENCY MANAGER OF THE CITY OF FLINT, EDWARD KURTZ, INDIVIDUALLY AND IN HIS OFFICIAL CAPACITY AS EMERGENCY MANAGER OF THE CITY OF FLINT, ROBERT ERLENBECK, INDIVIDUALLY AND IN HIS OFFICIAL CAPACITY AS MANGER FOR THE CITY OF FLINT RETIREMENT OFFICE, GERALD AMBROSE, INDIVIDUALLY AND IN HIS OFFICIAL CAPACITY AS CITY OF FLINT FINANCE DIRECTOR, AND THE CITY OF FLINT,

Defendants.
_____/

The Deposition of GERALD AMBROSE, taken before me, Claudia M. Weekly, CSR-2963, on Tuesday, May 20, 2014, at 1101 South Saginaw Street, 2nd Floor Conference Room, Flint, Michigan, commencing at or about 10:17 A.M.

talking about, are you referring to the cost of the City's participation in the pipeline?

Q Both.

A I had no direct involvement in any discussions relating to the actual cost estimates for the construction of the pipeline. I was, however, involved in doing the analysis of the cost benefit to the City of participating in the Karegnondi Water Authority as compared to continuing to receive, to purchase water from the Detroit Water and Sewer System.

Q Were any other options -- did you look at any other options apart from those two or variations of those two?

A There was brief evaluation of whether the City would be better off to simply use the Flint River as its primary source of water over the long term. That was determined not to be feasible.

Q Who determined that it wasn't feasible?

A It was a collective decision of the emergency management team based on conversations with the MDEQ that indicated they would not be supportive of the use of the Flint River on a long-term basis as a primary source of water.

Q What was the reason that they gave?

A You'll have to ask them.

Q Okay. You don't recall?

A I do not recall.

Q Now, am I correct in that is actually what is happening now, for at least a short-term --

A That's correct.

Q -- the City of Flint is using its own facilities and supplying its own water through the Flint River?

A That is correct.

Q When was the possibility of using that as a long-term solution abandoned?

MR. WARREN: Do you mean the Flint River?

MR. ALEC GIBBS: Yes.

THE WITNESS: Probably sometime in FY13. I don't recall specifically.

MR. BADE: I'm just going to object to the form of the question. Abandoned by whom?

Q (BY MR. ALEC GIBBS) By the collective body that was responsible for making the ultimate decision by the City of Flint, I assume. Sometime in fiscal year 2013?

A Sometime between -- I guess sometime probably during '13, I believe, or perhaps even midway through '12.

Q Okay.

A I don't recall the specific dates.

Q But it was based on communications from the Michigan Department of Environmental Quality.

MR. WARREN: Objection; asked and answered. You can answer.

THE WITNESS: It was based on information that we received from others within the City who said that MDEQ was not supportive of a long-term use of the Flint River.

Q (BY MR. ALEC GIBBS) Who are the City of Flint sources who communicated the Michigan Department of Environmental Quality's position?

MR. WARREN: Object to lack of foundation. You can answer.

THE WITNESS: I believe it was our utilities administrator, our public works director.

Q (BY MR. ALEC GIBBS) And who are those individuals?

A Howard Croft, Daugherty Johnson.

Q Are you aware of an independent study on the feasibility of alternative plans for water supply for the City of Flint that was commissioned by the Department of Treasury?

MR. WARREN: I'm going to object to relevance. We're getting really far afield here. I'm not directing him not to answer, but hopefully this can be tied up very quickly and we can all move on.

Q (BY MR. ALEC GIBBS) I'm just asking if you're aware of the study.

A Tell me what the name of the study is.

Q I have it here. Mark this as Exhibit 5.

(Exhibit Number 5 was marked.)

Q (BY MR. ALEC GIBBS) Do you recognize this study?

A I do not recall seeing this actual document, but I am aware of the study.

Q Okay. Do you remember when this study was commissioned?

A I don't know. Apparently it was completed in February of 2013.

Q The study makes reference to a number of meetings between the City of Flint and the Department of Treasury concerning the investigation into water supply options for the City of Flint. Did you participate in any of those meetings?

A I did.

Q What meetings do you recall participating in?

A I recall one or two meetings in Lansing. I don't remember when.

Q Do you remember if one of those meetings took place in December of 2012?

A I do not recall the date.

Q Do you remember who participated in these meetings?

A I do not recall. I was in attendance with the emergency manager then Michael Brown, as I recall, or Ed Kurtz. I honestly do not recall the dates and the timing.

Q Okay. There is a reference to, if you look to Page 2 of the study, it says although it appeared that this was

a -- it references an option for the Flint water treatment plant to supply the City of Flint without being supplied from either DWSD or KWA was initially considered. The preliminary investigation evaluated the cost associated with the required improvements to the plant and the Flint River dam system. And that although it appeared that this was a viable option, Flint, in a meeting on December 20th, 2012 with the treasury, stated that the City did not want to pursue that option and it is no longer being considered.

Do you recall that being discussed in one of those meetings you referred to earlier?

A No. But that's consistent with the decision that we reached.

Q You indicated that you did participate in some of the evaluations of the cost projections at least as it concerned Flint's contribution to the pipeline.

A Flint's participation in the pipeline, yes.

Q Okay. Well, what is your understanding of what Flint's annual contributions will be over the term of years for the loan bond amounts? In other words, what are Flint's debt service payments relative to the pipeline construction going to be on an annual basis?

A The debt service only?

Q And any payments associated with the pipeline

EXHIBIT B

PERMIT APPLICATION FOR WATER SUPPLY SYSTEMS

(CONSTRUCTION - ALTERATION - ADDITION OR IMPROVEMENT) AS DESCRIBED HEREIN

Required under the Authority of 1976 PA 399, as amended

This application becomes an Act 399 Permit only when signed and issued by authorized Michigan Department of Environmental Quality (DEQ) Staff. See instructions below for completion of this application.

Municipality or Organization, Address and WSSN that will own or control the water facilities to be constructed. This permit is to be issued to: **WSSN**:	Permit Stamp Area (DEQ use only)	
Owner's Contact Person (provide name for questions): Contact: Title: Phone:		
Project Name (Provide phase number if project is segmented):	4. **Project Location** (City, Village, Township):	5. **County** (location of proje

ISSUED UNDER THE AUTHORITY OF THE DIRECTOR OF THE DEPARTMENT OF ENVIRONMENT QUALITY

cc:

Issued by: _____

Reviewed by: _____

☐ **If this box is marked see attached special conditions.**

Instructions: Complete items 1 through 5 above and 6 through 21 on the following pages of this application. Print or typ all information except for signatures. Mail completed application, plans and specifications, and any attachments to the DE District Office having jurisdiction in the area of the proposed construction.

Please Note:

a. This **PERMIT** only authorizes the construction, alteration, addition or improvement of the water system described herein and is issued solely under the authority of 1976 PA 399, as amended.
b. The issuance of this **PERMIT** does not authorize violation of any federal, state or local laws or regulations, nor doe it obviate the necessity of obtaining such permits, including any other DEQ permits, or approvals from other units c government as may be required by law.
c. This **PERMIT** expires two (2) years after the date of issuance in accordance with R 325.11306, 1976 PA 399, administrative rules, unless construction has been initiated prior to expiration.
d. Noncompliance with the conditions of this permit and the requirements of the Act constitutes a violation of the Act.
e. Applicant must give notice to public utilities in accordance with 1974 PA 53, (MISS DIG), being Section 460.701 to 460.718 of the Michigan Compiled Laws, and comply with each of the requirements of that Act.
f. All earth changing activities must be conducted in accordance with the requirements of the Soil Erosion and Sedimentation Control Act, Part 91, 1994 PA 451, as amended.
g. All construction activity impacting wetlands must be conducted in accordance with the Wetland Protection Act, Par 303, 1994 PA 451, as amended.
h. Intentionally providing false information in this application constitutes fraud which is punishable by fine and/or imprisonment.
i. Where applicable for water withdrawals, the issuance of this permit indicates compliance with the requirements of Part 327 of Act 451, Great Lakes Preservation Act.

Facilities Description – In the space below provide a detailed description of the proposed project. Applications without adequate facilities descriptions **will be returned**. SEE EXAMPLES BELOW. Use additional sheets if needed.

EXAMPLES – EXAMPLES – EXAMPLES – EXAMPLES – EXAMPLES – EXAMPLES

Water Mains	500 feet of 8-inch water main in First Street from Main Street north to State Street. **OR** 250 feet of 12-inch water main in Clark Road from an existing 8-inch main in Third Avenue north to a hydrant.
Booster Stations	A booster station located at the southwest corner of Third Avenue and Main Street, and equipped with two, 15 Hp pumps each rated 150 gpm @ 200 feet TDH. Station includes backup power and all other equipment as required for proper operation.
Elevated Storage Tank	A 300,000 gallon elevated storage tank located in City Park. The proposed tank shall be spherical, all welded construction and supported on a single pedestal. The tank shall be 150 feet in height, 40 feet in diameter with a normal operating range of 130 – 145 feet. The interior coating system shall be ANSI/NSF Standard 61 approved or equivalent. The tank will be equipped with a cathodic protection system, and includes a tank level control system with telemetry.
Chemical Feed	A positive displacement chemical feed pump, rated at 24 gpd @ 110 psi to apply a chlorine solution for Well No. 1. Chlorine is 12.5% NaOCL, ANSI/NSF Standard 60 approved and will be applied at a rate of 1.0 mg/l of actual chlorine.
Water Supply Well	Well No. 3, a 200 foot deep well with 170 feet of 8-inch casing and 30 feet of 8-inch, 10 slot screen. The well will be equipped with a 20 Hp submersible pump and motor rated 200 gpm @ 225 feet TDH, set at 160 feet below land surface.
Treatment Facilities	A 5 million gpd water treatment plant located at the north end of Second Avenue. The facility will include 6 low service pumps, 2 rapid mix basins, 4 flocculation/sedimentation basins, 8 dual media filters, 3 million gallon water storage reservoir and 6 high service pumps. Also included are chemical feed pumps and related appurtenances for the addition of alum, fluoride, phosphate and chlorine.

General Project Information – Complete all boxes below.

7. Design engineer's name, engineering firm, address, phone number, and email address:

8. Indicate who will provide project construction inspection:
☐Organization listed in Box 1.
☐Engineering firm listed in Box 7.
☐Other - name, address, and phone number listed below.

9. Is a basis of design attached?
☐YES ☐NO

If no, briefly explain why a basis of design is not needed.

10. Are sealed and signed engineering plans attached?
☐YES ☐NO

If no, briefly explain why engineering plans are not needed.

11. Are sealed and signed construction specifications attached?
☐YES ☐NO

If specifications are not attached, they need to be on file at DEQ.

12. Were Recommended Standards for Water Works, Suggested Practice for Water Works, AWWA guidelines, and the requirements of Act 399 and its administrative rules followed?
☐YES ☐NO

If no, explain which deviations were made and why.

13. Are all coatings, chemical additives and construction materials ANSI/NSF or other adequate 3rd party approved?
☐YES ☐NO

If no, describe what coatings, additives or materials did not meet the applicable standard and why.

14. Are all water system facilities being installed in the public right-of-way or a dedicated utility easement? (For projects not located in the public right-of-way, utility easements must be shown on the plans.)
☐YES ☐NO

If no, explain how access will be obtained.

15. Is the project construction activity within a wetland (as defined by Section 324.30301(d)) of Part 303, 1994 PA 451?
☐YES ☐NO

If yes, a wetland permit must be obtained.

16. Is the project construction activity within a 100-year floodplain (as defined by R 323.1311(e)) of Part 31, 1994 PA 451, administrative rules?
☐YES ☐NO

If yes, a flood plain permit must be obtained.

17. Is the project construction activity within 500 feet of a lake, reservoir, or stream?
☐YES ☐NO

If yes, a Soil and Erosion Control Permit must be obtained or indicate if the owner listed in box 2 of this application is an Authorized Public Agency (Section 10 of Part 91, 1994 PA 451) ☐ Owner is APA.

18. Will the proposed construction activity be part of a project involving the disturbance of five (5) or more acres of land?
☐YES ☐NO

If yes, is this activity regulated by the National Pollutant Discharge Elimination System storm water regulations?
☐YES: NPDES Authorization to discharge storm water from construction activities must be obtained.

☐NO: Describe why activity is not regulated:

Please call 517-241-8993 with questions regarding the applicability of the storm water regulations.

19. Is the project in or adjacent to a site of suspected or known soil or groundwater contamination?
☐YES ☐NO

If yes, attach a copy of a plan acceptable to the DEQ for handling contaminated soils and/or groundwater disturbed during construction. Contact the local DEQ district office for listings of Michigan sites of environmental contamination.

20. IF YOU ARE A CUSTOMER/WHOLESALE/BULK PURCHASER, COMPLETE THE FOLLOWING

1) Name and WSSN of source water supply system (seller) _____

2) Does the water service contract require water producer/seller to review and approve customer/wholesale/bulk purchaser water system construction plans?
☐YES ☐NO

If yes to #2, the producer/seller approval letter must be attached when submitted to DEQ.

21. **Owner's Certification** The owner of the proposed facilities or the owner's authorized representative shall complete the owner's certification. It is anticipated that the owner will either be a governmental agency (city, village, township, county, etc.) or a private owner (individual, company, association, etc.) of a Type I public water supply.

OWNER'S CERTIFICATION

I, _____ (name), acting as the _____ (title/position) fo
(print) (print)

_____ (entity owning proposed facilities) certify that this project has
(print)

been reviewed and approved as detailed by the Plans and Specifications submitted under this application, and is in compliance with the requirements of 1976 PA 399, as amended, and its administrative rules.

Signature* Date Phone

*Original signature only, no photocopies will be accepted.

PROJECT BASIS OF DESIGN – FOR WATER MAIN PROJECTS

PROJECT NAME: _____

For this PROJECT the following information must be provided per Act 399 unless waived by the Department. For projects other than water main installation, or if additional space is needed, attach separate sheet(s) with detailed Basis of Design calculations.

A. A general map of the initial and ultimate service areas
☐ Included on engineering plans ☐ Attached separately

B. Number of service connections served by this permit application _____

C. Total number of service connections ultimately served by entire project _____

D. Residential Equivalent Units (REUs) served by this permit application _____

E. Total Residential Equivalent Units (REUs) ultimately served by entire project _____

F. Water flow rates for proposed project based on REUs listed in "D' and "E" above

1. Initial design average day flow (mgd) _____
2. Initial design maximum day flow (mgd) _____
3. Total design average day flow (mgd) _____
4. Total design maximum day flow (mgd) _____
5. Required fire flows: (1) _____ gpm for _____ hours

G. Actual flows and pressures of existing system at the connection point(s) (2)

_____ gpm at _____ psi
_____ gpm at _____ psi
_____ gpm at _____ psi
_____ gpm at _____ psi

H. Estimated minimum flows and pressures within the proposed water main system (3)

_____ gpm at _____ psi

(1) Every water system must decide what levels of fire fighting flows they wish to provide. Fire flow should be appropriate for the area (residential, commercial, industrial) being served by the project. Typical fire flow rates can be obtained from the water supply, local fire dept., ISO or AWWA. The water system must then be designed to be able to provide the required fire flows while maintaining at least 20 psi in all portions of the distribution system.

(2) Flows and pressures at the connection points must be given to determine if the existing water main(s) are able to deliver water to the new service area. These numbers can be obtained from a properly modeled and calibrated distribution system hydraulic analysis or hydrant flow tests performed in the field. If more than one connection is proposed, list as needed.

(3) List what the estimated minimum flows can be expected in the proposed water mains based on estimated water demands, head losses, elevation changes and other factors that may affect flows, such as dead end mains.

EXHIBIT C

State says Flint hasn't applied for permit to use river as drinking water source

A look at Flint water plant's facilities
The city plans to switch over to the Flint River as a primary drinking water source in April. *(MLive.com File Photo)*

Dominic Adams | dadams5@mlive.com By **Dominic Adams | dadams5@mlive.com**
Follow on Twitter
on March 28, 2014 at 6:30 AM, updated March 28, 2014 at 6:35 AM

FLINT, MI – Not so fast, state officials are telling Flint administrators charging toward an April 18 date to begin using the Flint River for all of the city's water needs.

The Michigan Department of Environmental Quality says it hasn't received the proper paperwork from the city. When the state does get it, a review of the application for state permission to use the river could take 30 to 45 days.

The city is switching over from buying treated water from Detroit to using the Flint River for drinking water temporarily. Once the Karegnondi Water Authority completes its pipeline from Lake Huron to Genesee County, Flint will switch to the KWA.

"In regards to the actual application, we haven't received one," said Steve Busch, Lansing and Jackson district supervisor in the DEQ's office of drinking water and municipal assistance. "We've received preliminary design plans and preliminary specifications and we've commented on those. They may be waiting until they have all the comments worked out before they submit the application."

Flint has bought treated Lake Huron water from Detroit, but that contract was terminated when Flint signed on to purchase 18 million gallons of raw water per day from the Karegnondi Water Authority. The contract termination goes into effect April 17.

The under-construction pipeline will bring raw Lake Huron water to Flint and Genesee County when it is complete by the end of 2016.

People in the city will drink Flint River water until the pipeline is complete. The Detroit Water and Sewerage

Department said it would **stop selling water to Flint and Genesee County** on its current contract on April 17, 2014. Genesee County is negotiating with Detroit for water until the KWA pipeline is flowing.

Busch said state reviews generally take between 30 and 45 days, but would not comment on if Flint would be ready to transition to river water by the time Detroit terminates the contract with the city.

"A fully engineered construction package, including all the work to be performed, has been submitted to the DEQ by the city of Flint in preparation for the transition to use of the Flint River as a temporary primary water source," said Howard Croft, Flint's director of public works, in a statement. "The submittal package has been under review for more than 30 days. The city has had ongoing discussions with the DEQ regarding the process and we anticipate a favorable response soon."

If the state hasn't approved Flint's use of river water by April 18, Busch said, the city would just continue to buy water from Detroit on a non-contract price until Flint has state OK to begin using the river.

"I don't think there is any scenario that we will just willy-nilly cut off service for Flint," said Bill Johnson, a consultant and spokesman for Detroit Water and Sewerage Department. "Negotiations are continuing."

Croft said the DEQ has been reviewing the request and asking questions throughout.

"When both sides come to an agreement and all issues have been addressed, then the permit is granted," Croft said in the statement. "Flint has been in ongoing communication with Genesee County and the DWSD to ensure that there is no interruption of water service to Flint customers. As the Mayor (Dayne Walling) said in his State of the City address 'beginning this spring, we will be using treated water from the Flint River as our temporary primary water source.' We are still on target to meet this goal."

Croft said there will be a series of public forums where residents can ask questions about the city's water transition, what that will mean for rates and others. He did not have specifics about when and where those meetings will take place.

*Dominic Adams is a reporter for The Flint Journal. Contact him at **dadams5@mlive.com** or 810-241-8803. Follow him on **Twitter**, **Facebook** or **Google+**.*

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EXHIBIT D

Emergency manager says city could have permit to use Flint River water by next week

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on April 05, 2014 at 6:00 AM, updated April 05, 2014 at 6:03 AM

FLINT, MI -- The city expects to have a state permit that will allow it to use the Flint River for drinking water by next week.

Emergency manager Darnell Earley said today, April 4, that the final application for the permit has been filed with the state Department of Environmental Quality after months of working with the state to ensure smooth sailing for the application.

"We expect to have the permit early next week," said Earley. "We are still on track to operate our treatment plant this spring."

The emergency manager's comments come after a **story in MLive-The Flint Journal** last week indicated the DEQ had not received the proper paperwork from the city for permission to use the river.

DEQ officials said in the story that the application process could take 30-45 days, but Earley challenged the idea that it will take that long and said city and state officials have been working closely in advance of submitting the final application.

The city is attempting to switch from buying treated water from the city of Detroit to using the Flint River for drinking water temporarily by mid-April.

Once the Karegnondi Water Authority completes its pipeline to Lake Huron, the city has committed to switching back to using water from Lake Huron and the KWA again

Earley said he expects to transition from Detroit water to Flint River water by April 17, the date Detroit officials have set for terminating the existing arrangement between the two cities.

"We don't think there will be a lag" between those dates, he said.

Earley said he has a contingency plan if the switch to the Flint River isn't made by April 17. Detroit Water

and Sewerage officials have said they don't intend to attempt to shut off the water supply to the city under any circumstances.

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EXHIBIT E

Flint gets final permit approvals from state to use Flint River for drinking water

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on April 10, 2014 at 4:00 PM, updated April 10, 2014 at 4:10 PM

FLINT, MI -- Bottoms up, Flint.

The state of Michigan has issued the **permits needed** for the city to begin using the Flint River for drinking water, a major step toward ending water purchases from the city of Detroit as early as next week.

"They've got a series of construction permits" that were issued Wednesday, April 10, said Brad Wurfel, a spokesman for the state Department of Environmental Quality. "They are**racing** to get all this work done."

The permits have been on Flint's to-do list since the Detroit Water and Sewerage Department said it was terminating its contract to sell water here on April 17.

That deadline was issued one year ago, and city and state water officials have been working and consulting on required upgrades at Flint's water treatment plant since.

Flint spokesman Jason Lorenz said today, April 10,that the city is still targeting April 17 as the day to shut off Lake Huron water -- treated and pumped here by DWSD -- and to turn on the intakes into the river.

Because work is still going on inside and outside the city's treatment plant, the exact time and date for the switch hasn't been set yet, Lorenz said.

Earlier this week, Flint emergency manager Darnell Earley called the city's ability to cut out the cost of water purchases from Detroit a "monumental change" for the city.

"The city of Flint will be able to control water costs," Earley said. "I'm kind of glad we're not a part of that discussion (about the future of the Detroit water system) anymore."

A consultant hired by Earley is expected to recommend new water rates during a City Council committee meeting at 5 p.m. today. The emergency manager has already said**rates will not be reduced** because of upgrades that are needed in Flint's water distribution system.

Flint officials will need that infrastructure upgrade whether they use river or lake water. City officials have signed an agreement to use Lake Huron water supplied by the Karegnondi Water Authority once the pipeline it is building is completed -- something that's expected to happen in 2016.

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EXHIBIT F

Watch Mayor Dayne Walling, EM Darnell Earley drink Flint River water before turning Detroit connection

Mayor Dayne Walling turns off water supply from Detroit, drinks Flint River water

Mayor Dayne Walling turns off the flow of water from Detroit as the Flint transitions to using the Flint River

Dominic Adams | dadams5@mlive.com By **Dominic Adams | dadams5@mlive.com**

Follow on Twitter

on April 25, 2014 at 1:00 PM, updated April 28, 2014 at 10:30 AM

FLINT, MI – Mayor Dayne Walling asked for a countdown from the group of about a dozen people huddled inside a small building on Friday, April 25.

"Three, two, one," they counted, then Walling pushed a small black button.

Seconds later, a green light winked out, and that was it.

Watch the video to see Flint effectively cut its water ties with Detroit when the mayor pushes the button.

Flint will use the river until the Karegnondi Water Authority builds its pipeline to Genesee County. The $274 million project is expected to be complete sometime in 2016.

Friday's event at the Flint water treatment plant also featured Walling and other elected officials drinking Flint River water.

"It tastes like...water," said Fourth Ward Councilman Joshua Freeman after drinking a cup.

It should take about two days for the residual Detroit water to clear the city's water system before all Flint customers will be drinking treated river water.

"Water is an absolute vital service that most everyone takes for granted," Walling said. "It's a historic moment for the city of Flint to return to its roots and use our own river as our drinking water supply."

*Dominic Adams is a reporter for The Flint Journal. Contact him at **dadams5@mlive.com** or 810-241-8803. Follow him on **Twitter**, **Facebook** or **Google+**.*

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EXHIBIT G

Second positive coliform bacteria test means Flint's west side water boil notice still in effect

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on August 18, 2014 at 4:00 PM, updated January 17, 2015 at 10:28 AM

(This story has been updated to correct information about water test results in the boil water advisory area.)

Flint Journal file photo

FLINT, MI -- A second water sample in an area where residents have been told to boil their drinking water has tested positive for total coliform, meaning owners of businesses and residents there should continue to boil water until further notice -- at least until Wednesday, Aug. 19.

"We don't know yet what caused this. We don't have a smoking pistol," said Mike Prysby, an engineer with the Michigan Department of Environmental Quality.

Update: Flint officials say 'abnormal' test to blame in E. coli scare

Flint officials have ramped up testing in the boil-water area, a half-mile square area on the city's west side, since a positive test for fecal coliform bacteria on Thursday, Aug. 14.

Fecal coliform bacteria -- also known as E.coli -- can make people sick, and are a particular concern for those with weakened immune systems.

Prysby called fecal coliform bacteria in drinking water unusual, something that typically happens fewer than a half-dozen times in any given year statewide. Sometimes, doesn't happen anywhere in Michigan over a full calendar year, he said.

The second positive test for total coliform came from samples taken Saturday, Aug. 16, according to Prysby.

The U.S. Environmental Protection Agency says positive total coliform tests suggest there may be a pathway

for pathogens and/or fecal contamination to enter the drinking water distribution system.

For drinking water, total coliforms are used to determine the adequacy of water treatment and the integrity of the distribution system, according to EPA.

"The absence of total coliforms in the distribution system minimizes the likelihood that fecal pathogens are present," the agency Web site says. "Thus, total coliforms are used to determine the vulnerability of a system to fecal contamination."

Fecal coliform and E. coli are bacteria that indicate water may be contaminated with human or animal feces.

This is the area in which a boil water advisory is in effect on the west side of the city of Flint.

Microbes in these wastes can cause diarrhea, cramps, nausea, headaches, or other symptoms, and may also pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems, according to a news release from the city.

Flint's boil advisory is in an area bordered by Mann Hall Avenue on the north and east, Whitney Avenue on the south, and the city limits on the west.

The contamination is a concern for Sandi Blackmon, owner of Sandi's Elegant Catering on South Ballenger Highway, who said she's scrambling to keep up with her work with a boil advisory in effect.

Not only does the advisory say water for drinking should be boiled, but also water for washing dishes -- even brushing teeth.

"I'm concerned, because I'm a former culinary arts student. I know about what food-born bacteria can do ... E.coli can be deadly," Blackmon said.

Representatives of other restaurants in the busy commercial area of Balleneger and Corunna Road said they were boiling water Monday and will be until they receive an all-clear message from City Hall.

"It's inconvenient but we do it -- we do the best we can," said David Todorovsky, an owner of Atlas Coney Island.

Flint Councilwoman Vicki VanBuren, who represents the area, has another reason for concern about the boil water advisory.

"My mother lives in that area," VanBuren said. "She has a lot of health concerns (so) I took her over some bottled water and told her not to use (tap water) to drink or cook with it.

"This would concern me no matter what part of the city it was in," she said.

Council members could get more information on the water contamination and what may have caused it at committee meetings this week.

In the meantime, Prysby said there are multiple possible explanations for the contamination, including water main breaks in the area, chlorine levels that are off-kilter or a poor sample location or collection technique.

Prysby said water coming out of Flint's water treatment plant continues to meet all drinking water standards, meaning the problem is within the water distribution system.

"We haven't confirmed a reason," he said of the results, "We're still investigating further. In some situations, we never find out why."

The city is warning the people in the localized area to not drink the water without boiling it first for one minute, and letting it cool before using.

Boiled or bottled water should be used for not just drinking, but for making ice, brushing teeth, washing dishes and preparing food.

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EXHIBIT H

Tests positive for total coliform again in water-boil area on Flint's west side

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on August 19, 2014 at 4:00 PM, updated January 17, 2015 at 10:25 AM

MLive file photo

FLINT, MI -- Water in a small area on Flint's west side has **tested positive** again for total coliform, and the city's boil water advisory there is continuing until at least Wednesday, Aug. 20.

Mike Prysby, district engineer for the Michigan Department of Environmental Quality, said water in the half-square-mile area tested positive for total coliform on Saturday, Aug. 16, and Sunday, Aug. 17.

Flint officials have ramped up testing in the boil-water area since a **positive test for fecal coliform bacteria** on Thursday, Aug. 14.

The boil-water area is Mann Hall Avenue on the north and east, Whitney Avenue on the south, and the city limits on the west.

Fecal coliform bacteria -- also known as E.coli -- can make people sick, and are a particular concern for those with weakened immune systems.

The U.S. Environmental Protection Agency says positive total coliform tests suggest there may be a pathway for pathogens and/or fecal contamination to enter the drinking water distribution system.

Total coliforms are used to determine the adequacy of water treatment and the integrity of the distribution system, according to EPA.

"The absence of total coliforms in the distribution system minimizes the likelihood that fecal pathogens are present," the agency Web site says. "Thus, total coliforms are used to determine the vulnerability of a system to fecal contamination."

The city of Flint**issued a statement** Monday, Aug. 18, saying "testing over the last 48 hours has shown no signs of E. coli or fecal coliform bacteria in the water," but makes no mention of the total coliform test results.

The city's statement says a sampling error is believed to be to blame for the initial abnormal test.

Prysby said the back-to-back positive total coliform tests are a "general indicator there could be more pathogenic organisms present" in water but is "not a direct indicator."

"We haven't narrowed it down to any one possibility (but) we don't play Russian roulette with public health," Prysby said of the abnormal samples and the need to continue testing.

Prysby said test results are "moving in the right direction" because there have been no additional discoveries of E. coli or fedcal coliform bacteria in water.

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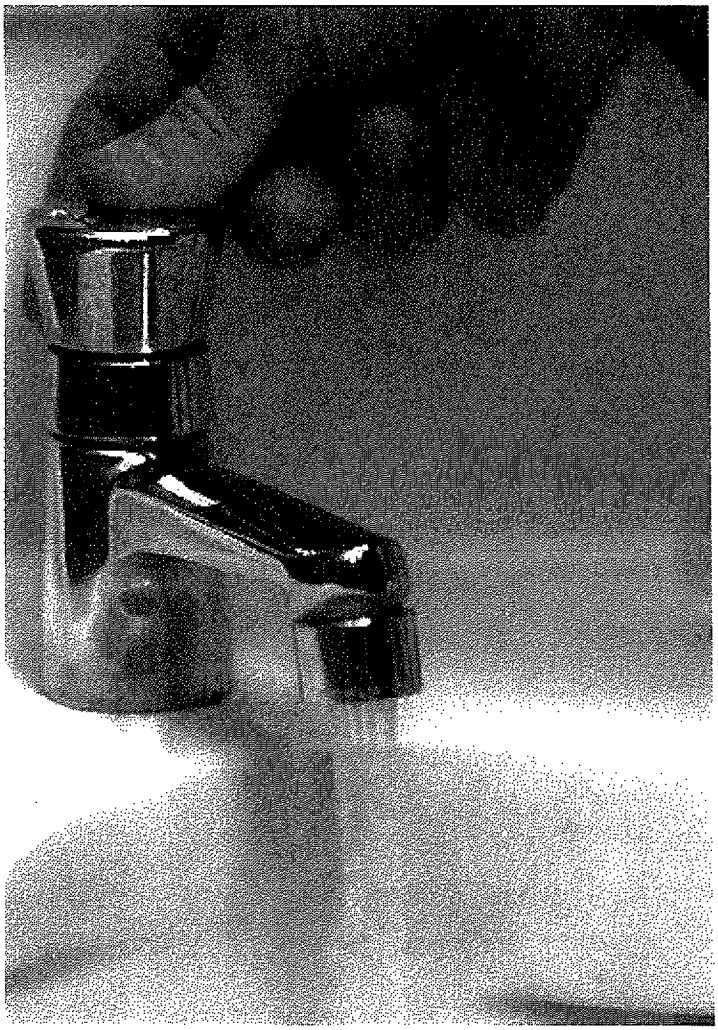
Flint issues boil water advisory for section of the city after positive test for total coliform bacteria

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on September 05, 2014 at 6:56 PM, updated January 17, 2015 at 10:20 AM

FLINT, MI -- The city has issued a boil advisory for a portion of Flint, saying water in the area has tested positive for total coliform bacteria.



MLive file photo

The area of the advisory is bordered by Dayton Street on the north, DuPont Street on the east, the Flint River on the south, and by Lavelle Road to the Flint River on the west, the city said in a news released issued today, Sept. 5.

The latest advisory marks the **second time in less than 30 days** that residents and businesses in a part of the city have been told to boil or use bottled water for drinking, bathing, making ice, brushing teeth, washing dishes, and preparing food.

The U.S. Environmental Protection Agency says positive total coliform tests suggest there may be a pathway for pathogens and fecal contamination to enter a drinking water system.

Total coliforms are used to determine the adequacy of water treatment and the integrity of the distribution system, according to EPA.

"The absence of total coliforms in the distribution system minimizes the likelihood that fecal pathogens are present," the agency Web site says. "Thus, total coliforms are used to determine the vulnerability of a

system to fecal contamination."

Boiling water kills bacteria or other harmful organisms, according to the city's advisory.

"Total coliform bacteria are generally not harmful themselves. Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present," the city's statement says.

"Usually, coliforms are a sign that there could be a problem with the treatment or distribution system (pipes). Whenever we detect coliform bacteria in any sample, we do follow-up testing to see if other bacteria of greater concern, such as fecal coliform or E. coli, are present. We did not find any of these bacteria in our subsequent testing," the statement says.

The city says it will flush the system in the boil advisory area and increase chlorine added to water.

All water testing results at the city's Water Treatment Plant have shown Flint's water, which is drawn from the Flint River, meets all Safe Water Drinking Standards when it leaves the facility.

The city says anyone with questions about the advisory or any other water issues should call 810-787-6537.

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Important Information About Your Drinking Water

Tests showed coliform bacteria in the City of Flint water

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we did to correct the situation.

We routinely monitor for drinking water contaminants. We took 150 samples to test for the presence of coliform bacteria during September 2014. 15 of those samples (10%) showed the presence of coliform bacteria. The standard is that no more than 5 percent of our samples may do so.

What should I do?

You do not need to boil your water or take other corrective actions. However, if you have specific health concerns, consult your doctor. People with severely compromised immune systems, infants, and some elderly may be at increased risk. These people should seek advice about drinking water from their healthcare providers. General guidelines on ways to lessen the risk of infection by microbes are available from EPA's Safe Drinking Water Hotline at 1-800-426-4791.

What does this mean?

This is not an emergency. A portion of the City was notified to boil their water at the time of the incident until it was resolved. Coliform bacteria are generally not harmful themselves.

Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially harmful, bacteria may be present. Coliforms were found in more samples than were allowed and this was a warning of potential problems.

Usually, coliforms are a sign that there could be a problem with the system's treatment or distribution system (pipes). Whenever we detect coliform bacteria in any sample, we do follow-up testing to see if other bacteria of greater concern, such as fecal coliform or E. coli, are present. We did not find any of these bacteria in our subsequent testing, and further testing shows that this problem has been resolved.

What happened? What was done? On September 5, 2014, after routine and repeat samples showed the presence of total coliform, a boil water order was issued to the affected area. That area was flushed and resampled until samples were non-detect for total coliform. The boil order was lifted on September 9, 2014. Samples collected since then show that all results met acceptable limits.

For more information, please contact Mr. Brent Wright, Water Plant Supervisor, City Of Flint - DPW at 810.787.6537 ext. 3510 or Flint Water Plant - 4500 North Dort Highway, Flint, MI 48505.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by the City of Flint.

CERTIFICATION: F2, S3 WSSN: 02310

I certify that this water supply has fully complied with the public notification requirements in the Michigan Safe Drinking Water Act, 1976 PA 399, as amended, and the administrative rules.

Signature	PLANT SUPERVISOR Title	10-23-14 Date Distributed

Reminder to water supplier: This notice / certification must be sent to the DNRE.

EXHIBIT I

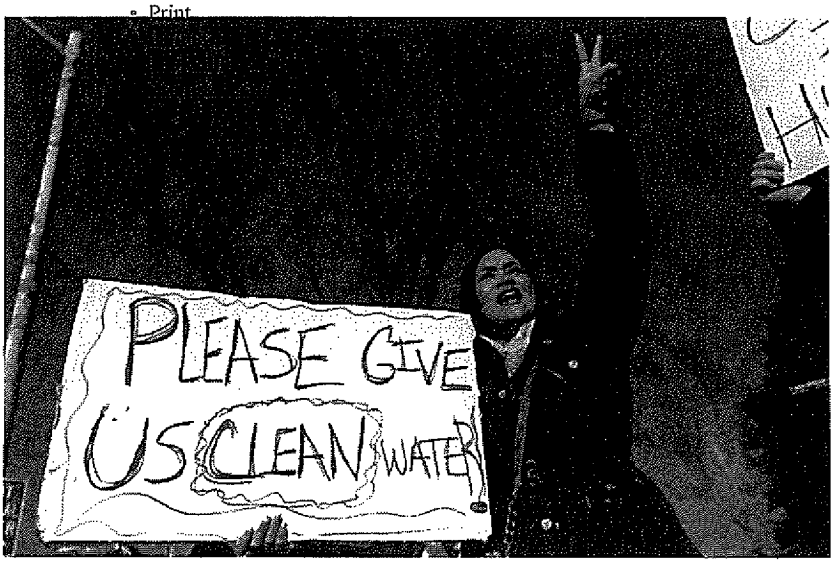
- Weekly Ads
- Local Guide
- Today's Ads
- Classifieds

- Tools
  - Email Newsletter Sign up
  - Advertise with Us
  - Contact Us
  - Work for Us
  - Order Photo Reprints
  - Contests
  - Subscribe
  - Manage Your Subscription
  - Newsstand Locations
  - E-Paper
  - Text Alerts
  - RSS
  - Newspapers in Education
  - GasBuddy

- Twitter
- Reddit
- Pinterest
- 2 Comments
- Email
- Print

- Home
- News

Some Flint residents complain of skin problems from water



In this photo taken on Tuesday, Jan. 13, 2015, Gina Reynolds, a University of Michigan Flint student majoring in social work, chants "clean water is a human right," at cars passing by during a small protest over the conditions of the Flint water system in Downtown Flint, Mich. (AP Photo/The Flint Journal-MLive.com, Sam Owens)

By The Associated Press

Posted: 01/14/15, 4:25 PM EST | Updated: on 01/14/2015

2 Comments

FLINT- Some Flint residents are complaining that the city's water is causing skin problems for some children.

Hundreds of people turned out Tuesday to discuss Flint's water quality at a meeting with the mayor and city council members. Flint resident Qiana Dawson said her 4-year-old and 2-year-old have broken out in rashes because of the water, resulting in high doctor's bills.

"You all need to work with me on money," she said.

LeeAnne Walters said her 3-year-old, who has a compromised immune system, has been suffering from skin problems after bathing in the water.

"We got bad water," said City Councilman Eric Mays, who hosted the meeting. "If you buy a bad product, you return it for a refund."

The meeting was held hours after demonstrators gathered outside Flint City Hall to protest water quality and rising bills, The Flint Journal reported .

The city insists the water is safe.

Flint Mayor Dayne Walling said officials needs to focus on how to improve the water.

"I'm talking with people about water every single day," Walling said. "We need to work together as a community, with the cooperation of the state and federal government, to fix this issue."

Issues with the city's water supply emerged after Flint stopped buying water from Detroit's water department. Flint officials this month said they were dealing with elevated levels of a disinfection byproduct.

Flint switched from using Lake Huron as its drinking water source in April. The city plans to use the Flint River as its water source until the end of 2016, when the Karegnondi Water Authority expects to complete construction of a new Lake Huron water pipeline.

Some want Flint to switch back to using Detroit's water.

Walling has supported the decision by state-appointed emergency manager Darnell Earley to hire a consultant to correct the treatment of water from the Flint River. Gov#Rick Snyder on Tuesday announced that Earley would be put in charge of the struggling Detroit Public Schools district.

Earley said last week that going back to Detroit water was cost prohibitive and that the city "can ill-afford to switch course."

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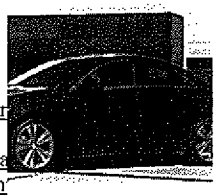

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Fourth family member sentenced for K2 sales

EXHIBIT J

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

City of Flint Did Not Meet Treatment Requirements

Our water system was recently found to be in violation of a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we are doing to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Samples were collected for total trihalomethanes (TTHM) analysis from eight locations on a quarterly basis (May 21, August 21, and November 20 of 2014). The average of the results at **ANY** of the eight locations must not exceed the maximum contaminant level (MCL) for TTHMs, otherwise our water system exceeds the Maximum Contaminant Level (MCL). The standard for TTHMs is 80 ug/L. The location reporting the highest TTHM level was 99 ug/L; thus, our water system exceeds the TTHM MCL.

What should I do?

- There is nothing you need to do unless you have a severely compromised immune system, have an infant, or are elderly. In that case, you may be at increased risk and should seek advice about drinking water from your health care provider.
- You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.

What does this mean?

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours.

People who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer.

What is being done?

We are currently working on solutions to correct the problem. We anticipate resolving the problem in 2015.

For more information, please contact Mr. Brent Wright or Mike Glasgow at 810-787-6537 or the Water Plant at 4500 North Dort Highway, Flint, MI 48505.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by the City of Flint.

CERTIFICATION: F1 S3 WSSN: 02310

I certify that this water supply has fully complied with the public notification requirements in the Michigan Safe Drinking Water Act, 1976 PA 399, as amended, and the administrative rules. Reminder to water supplier: This notice/ certification must be sent to the DEQ.

Michael Glasgow	ASSISTANT SUPERVISOR	1/2/15
Signature	Title	Date Distributed

City warns of potential health risks after Flint water tests revealed too much disinfection byproduct

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on January 02, 2015 at 9:09 PM, updated January 17, 2015 at 10:04 AM

FLINT, MI -- The city says there's been too much disinfection byproduct in Flint's water system recently, something that -- over many years could cause liver, kidney or central nervous system problems and an increased risk of cancer.

The notice from the city says Flint water is safe to drink but warns those with "a severely compromised immune system, (who) have an infant or are elderly" that they "may be at increased risk and should seek advice about drinking water from your health care provider."

For others, there is no need to boil water or take other actions, the notice says.

"It 's been a **rocky road**," City Council President Josh Freeman said. "It's not acceptable.

"People have a reasonable expectation that they are going to have quality drinking water. This is obviously going to rattle people."

Mailed Friday, Jan. 2, the customer notices come after the state Department of Environmental Quality issued a notice of violation of the Safe Drinking Water Act for maximum contaminant levels for trihalomethanes -- or TTHM -- a group of four chemicals that are formed as a byproduct of disinfecting water.

As city water plant operators used additional chlorine to fight bacteria in the Flint water system this summer, disinfectant byproduct levels also likely increased, city officials said Friday.

Levels of TTHM have decreased since that time, and in Nov. 20, testing at eight locations showed only one that exceeded maximum contamination levels, according to the state's notice of violation.

Testing on Aug. 21 showed contaminant levels were higher than maximum levels allowed at each of the same eight locations.

"The water in our system today is not in violation" because of efforts to improve the distribution system and adjust water treatment, said Doughtery Johnson, utilities administrator at the Flint water treatment plant.

Those changes "have likely contributed in part to the reduction in TTHM levels reported in the most recent

quarter, and suggest the city may be able to achieve compliance with the TTHM standard," the state's violation notice says.

City officials released a statement Friday saying its actions "appear to have corrected ... known compliance issues with the system, including a recent temporary increase in the maximum contamination level (MCL) of trihalomethanes (TTHM)

"Both the city of Flint and the MDEQ expect the corrective measures being implemented will resolve the issue by early 2015," the statement says.

The city's recent violation for excessive disinfectant byproducts is the latest in a series of issues for the Flint water system since officials **changed the water source** pumped to homes and business from treated Lake Huron water purchased from the city of Detroit to water drawn directly from the Flint River and treated in Flint.

The use of Flint River water is expected to be temporary because the city is a partner in the Karegnondi Water Authority, which is building a new water pipeline to Lake Huron.

Once that system is put into service, something that's expected to happen by the end of 2016, Flint will be in a position to return to using lake water.

Freeman said that long-term plan remains "the right path to be on" and said the city appears to be on course to fix the problem of disinfection byproduct levels, but Councilman Eric Mays called on the City Council to hold an inquiry about drinking water quality.

"Sworn information given under oath is the only information I trust," Mays said.

Residents have complained to the council about the smell and taste of the water since Flint stopped the flow of lake water here and there were three boil water advisories in a 22-day span this summer after positive tests for total coliform and fecal coliform bacteria.

In October, **General Motors announced** that it would no longer use treated river water at its engine plant here because of fears high chloride levels would cause corrosion.

Flint Department of Public Works Director Howard Croft said that the city's aging water distribution system remains the biggest obstacle to meeting Safe Drinking Water standards but officials have also said the relatively low quality of untreated river water and the need to more carefully manage chemical treatment has also been a factor.

Croft told a City Council committee in September that river water has proven hard to treat and to keep safe because of variables that wouldn't be factors in lake water, like temperature fluctuation and rain.

But Croft said the city has made improvements to its distribution system and said additional improvements are on the way, including pipe replacements, leak detection and hydraulic monitoring.

Johnson said the size of Flint's water system, which once served more than 200,000 people and now serves about half that number, also makes keeping water fresh in distribution pipes difficult.

Stagnant water is more susceptible to contamination, officials have said.

Flint will remain in violation of the Safe Drinking Water Act until every test site in the city has acceptable levels of disinfectant byproducts, Johnson and Croft said.

The next round of testing is scheduled to take place in February.

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EXHIBIT K

Lower TTHM levels put Flint in compliance with Safe Drinking Water Act

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on September 03, 2015 at 3:17 PM

FLINT, MI -- The city is no longer in violation of the federal Safe Drinking Water Act because the level of total trihalomethanes in water samples collected last month has fallen, the Michigan Department of Environmental Quality says.

The DEQ notified the city of the test results in a letter Wednesday, Sept. 2, ending eight months of the city under a violation of the act. The city will no longer have to send water customers warning notices about TTHM levels.

"Creative measures by the city have been successful in achieving compliance with this standard," reads the letter from Michael F. Prysby of the DEQ. "These measures have included replacement of anthracite filter media with granular activated carbon as well as the optimization of water treatment plant and distribution system processes and operations as recommended through operational evaluations conducted by the city.

"It is important that the city continue to follow these recommendations in order to limit disinfection byproduct formation and maintain compliance (with state requirements)," the letter says. "While (requirements have) now been met at all eight compliance sampling sites, an individual TTHM concentration above (80 parts per billion) was measured at one location ... in August 2015."

The location of the highest TTHM test in August was at Salem Housing, 3216 King Boulevard, which registered 90 ppb. Flint's violation of the federal law was the result of the annual average of TTHM above 80 ppb at a minimum of one of the eight testing locations.

City officials have said they expected improved TTHM levels after the installation of the new **$1.6 million carbon filter** this summer.

"The city of Flint is continuing to improve its water system, including both the areas of treatment and distribution," Mayor Dayne Walling said in a news release issued by the city Thursday, Aug. 3.

TTHM is a colorless, odorless byproduct of chlorinating water with high levels of total organic carbon. The city began having problems managing TTHM after it began using the Flint River as its water source in April 2014.

In past notices mailed to Flint water customers, the city has warned that drinking water with excess amounts of TTHM can pose increased health risks for those with a compromised immune system, the elderly, pregnant women and infants.

The good news on TTHM comes the day after researchers at Virginia Tech published an online report, saying tests show Flint **drinking water is "very corrosive"** and is "causing lead contamination in homes."

A statement from Walling on the lead issue says the city will work with the DEQ on a plan aimed at reducing the corrosive effects of water on older transmission pipes and home service lines.

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EXHIBIT L

(/lifestyle)

Scary: Leaded Water and One Flint Family's Toxic Nightmare

July 9th, 2015, 11:28 PM

Like 2 61

Curt Guyette is an investigative reporter for the ACLU of Michigan. His work, funded by a grant from the Ford Foundation, focuses on emergency management and open government. He writes regularly for Michigan Democracy Watch Blog. (http://www.aclumich.org/democracywatch/index.php/entry/hard-to-swallow-toxic-water-in-a-toxic-system)

By Curt Guyette

It took a while for LeeAnne Walters to realize the full impact of the number: 13,200.

LEEANN WALTERS

Walters—a stay-at home mom with four sons and a husband in the Navy—had seen other numbers reflecting the quality of drinking water at her Flint home that were devastating. But 13,200? She'd never seen anything like this.

The city had tested her water twice in this past March and both times found dangerously high levels of lead—104 parts per billion (ppb) and 397 ppb, respectively.

Those numbers filled her with dread, because they meant her family had been exposed to high levels of a terribly toxic heavy metal that put her children's future in jeopardy.

But it was the result of a third test of the tap water in her home, performed by independent experts at Virginia Tech University, that most stunned Walters.

"It took a while for me to wrap my head around it," said Walters.

The VT researchers discovered lead levels in Walters' water reached a jaw-dropping 13,200 ppb—more than twice the amount at which the U.S. Environmental Protection Agency classifies

water as hazardous waste.

"When I saw those numbers I was shocked," said Virginia Tech professor Marc Edwards, a former MacArthur Fellow and respected authority on corrosion in drinking-water systems, who oversaw the tests.

Edwards played a key role in discovering and addressing the problem of corroded water pipes and lead in Washington, D.C. during the early 2000s, in what's described as the *worst* contamination crisis ever seen in a major *urban* water system.

In terms of lead levels, the Walters family's numbers eclipsed even the worst D.C. homes.

"I have never in my 25-year career seen such outrageously high levels going into another home in the United States," said Edwards. "This was literally hazardous-waste levels."

But the condition of Walters' tap water raises a much more far-reaching question: Since the city moved away from Detroit's water system and began pumping water from the Flint River, how many other families have been put at risk by the city's questionable testing procedures and handling of the water supply?

The Walters family surely isn't alone in dealing with the threat of lead-laced drinking water. Flint has tens of thousands of homes that are a half-century old or older, built at a time when water service lines were typically made of lead.

And according to various experts, including an EPA water-quality specialist, the city's actions are only exacerbating the threat.

"What the public needs is accurate information," explained Miguel Del Toral, regulations manager for the Ground Water and Drinking Water Branch of the EPA's Region 5.

Instead, the city is utilizing testing measures that almost ensure that worst-case scenarios such as the one facing the Walters family escape detection, asserted Del Toral in an internal EPA memo provided to the ACLU of Michigan.

Compounding the threat is what Del Toral describes as the continued inability of officials to adequately treat water coming into people's homes from the Flint River.

"I don't want to scare people unnecessarily," said Del Toral in a phone interview from his home in Chicago. "But there is absolutely a problem in Flint that needs to be addressed right away."

During his interview with the ACLU of Michigan, Del Toral said he was willing to go on the record with his concerns, but that he was doing so as a private citizen, not as a representative of the EPA.

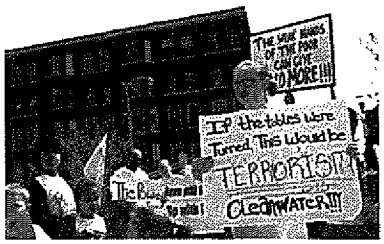
EPA rules, he said, required that such interviews be routed through the agency's public affairs people. But he's willing to speak out nonetheless, he said, because of the potential harm to the public is so great.

WATERING DOWN THE TESTS

Perhaps the most vexing problem in all of this is the contamination caused by the city's decades-old network of lead and iron pipes—a problem directly connected to the switch to river

water, and the city's failure to adequately treat it.

Under the U.S. Environmental Protection Agency's rules, if lead reaches a level of 15 parts per billion in water, the source of the problem must be identified and corrected.



Residents protest the poor water quality

In early March, after months of requests (and only after Walters had received a doctor's note raising concerns about problems with the water), the city finally conducted a test. It found lead levels of 104 ppb the first time. A second test recorded a level of 397 ppb.

Blood tests, taken after those water-sample numbers were reported, revealed that one of her children, a four year old, had lead poisoning.

The news was devastating, said Walters, and the concern it creates for her child's future is haunting.

"Lead can affect almost every organ and system in your body," according to the EPA's web site. "Children six years old and younger are most susceptible ... Even low levels of lead in the blood of children can result in: behavior and learning problems; lower IQ and hyperactivity; slowed growth; and hearing problems."

Those dangers made Walters all the more determined to get her questions answered.

For one thing, she wanted to know why residents were being instructed to "pre-flush" water lines before drawing samples that would be tested by the city

After much searching, she found Del Toral at the EPA's Region 5 in Chicago. He explained to her that her instincts were right, and that she had good cause to be concerned about the way testing was being done.

"The practice of pre-flushing before collecting compliance samples has been shown to result in the minimization of lead capture and significant underestimation of lead levels in drinking water," wrote Del Toral in an internal memo dated June 24.

Del Toral went on to say that the city's testing methods were a "serious concern" because they "could provide a false sense of security to the residents of Flint regarding lead levels in the water." As a result, he warned, residents could fail to take the necessary precautions to protect their families from lead in the drinking water.

Virginia Tech's Edwards completely agrees with Del Toral's assessment.

"The net effect of a 'pre-flush' is to greatly reduce the likelihood of detecting lead in samples collected ... that would normally be present in the consumers drinking water," Edwards wrote in an email. "I have long maintained that the practice should be banned, as it artificially lowers the amount of lead detected in samples versus typical consumer exposure."

Asked about these concerns, city spokesman Jason Lorenz offered the following email reply: "While I cannot directly respond to Mr. Del Toral's remarks without first contacting the EPA

Region 5 office, I can say that the City of Flint follows all the testing procedures and schedules as required by the U.S. EPA."

He added that the Michigan Department of Environmental Quality (MDEQ) endorses the city's sampling method. The MDEQ did not respond to phone calls and e-mails seeking its comments on the controversy.

Del Toral contended in an interview that what Flint's doing is actually exploiting a "loophole" in the law.

"From a technical standpoint, there's no justification for the way Flint is conducting its tests," Del Toral said. "Any credible scientist will tell you [the city's] method is not the way to catch worst-case conditions."

There is no legitimate reason for the city's methodology, said Del Toral.

During his interview with the ACLU of Michigan, Del Toral said he was willing to go on the record with his concerns, but that he was doing so as a private citizen, not as a representative of the EPA.

EPA rules, he said, required that such interviews be routed through the agency's public affairs people. But he was willing to speak out nonetheless, he said, because of the potential harm to the public.

FLUSHING OUT REAL ANSWERS

It was Del Toral who, after determining that the lead problem plaguing the Walters family was coming from outside their home, connected LeeAnne with Edwards at Virginia Tech.

Instead of taking a single sample after a line had been "pre-flushed" under the city's direction, Edwards instructed Walters to collect a series of samples from water that had been allowed to sit in the service line long enough to accurately reflect levels the family could be exposed to under normal use.

(Meanwhile, that same service line, dug up and replaced after the sample collection, was found to be made of lead in one section and iron in another.)

Edwards tested the water and discovered that the lead contamination ranged from 200 ppb to the 13,200 ppb figure that stunned LeeAnne Walters—and should likewise shock many others.

Given the age of much of Flint's infrastructure, Edwards agrees with Del Toral's assessment that the test results they found at the Walters home amount to an alarm going off, and others in the city need to pay attention.

"I do not see any reason why there would not be serious problems occurring in at least some other Flint homes," said Edwards.

In 1986, the U.S. Safe Drinking Water Act was amended to prohibit the use of lead pipes in public water systems. Every house built before that is potentially at risk, said Edwards. About half of Flint's roughly 40,000 homes are at least 50 years old.

Making things worse is the fact that the high levels of chlorine being used to treat Flint's dirty river

water lead to the creation of a carcinogenic byproduct know as total trihalomenhanes, or TTH?M. To keep TTHM levels down, the city is adding ferric chloride. The trouble is, that additive can also accelerate the corrosion of lead and iron pipes.

Adding yet another layer to the problem is something the city is *not* doing.

According to Del Toral, Flint should be adding corrosion-control chemicals designed to help keep lead and copper in pipes from leaching into drinking water. Doing so is required by federal regulations, wrote Del Toral in his memo.

"To our knowledge, that is inaccurate," said Flint spokesman Lorenz. "Before the plant was placed in operation, the City (and our engineering firm) had numerous discussions with DEQ personnel and inquired if corrosion-control chemicals – typically phosphates --needed to be included in the treatment process. The use of these chemicals was not required or mandated."

What's indisputable is this:

Flint's water contained corrosion-control chemicals until April 2014, when Flint's ties to the Detroit water system were severed. Flint officials hailed that changeover as a cost-cutting move for a city facing a financial crisis so severe it had been placed under the control of a state-appointed emergency manager.

Discontinuing the use of the anti-corrosion chemicals allowed toxic scale built up on the insides of pipes over the past decades to be released into water flowing into people's homes, explained Del Toral.

In his memo, Del Toral warned: "The lack of mitigating treatment is especially concerning as the high lead levels [that result] will likely not be reflected in the City of Flint's compliance samples due to sampling procedures used…"

In other words, at the same time the city is exacerbating the problem, it's conducting tests that will probably fail to identify the true extent of the threat.

Del Toral described the situation as a "major concern."

"In the absence of any corrosion control treatment, lead levels in drinking water can be expected to increase," he warned in his memo.

The EPA offered Flint officials the use of agency experts to help get the situation under control, said Del Toral, but added that, to his knowledge, the city has so far declined all help.

LeeAnne Walters said that when she asked why city officials weren't taking the EPA's offer of assistance, she was told, "We don't need it."

Flint spokesman Lorenz, on the other hand, maintained that "the city continues to work closely with the MDEQ and the EPA Regional Office."

As for Walters's family, that the city has finally replaced the service line leading to their home, and lead levels have dropped below the 15 ppb EPA action level.

The problem now, she said, is that water currently coming out of her tap tinged yellow and smells of rotten eggs. City officials have given her no explanation as to the possible cause of that.

It is just one more in a long list of questions that need to be addressed.

"What we need," said Walters, "are more answers."

But it's not just answers the people of Flint require.

They also need solutions. And, as Del Toral's EPA memo emphasizes, they need them immediately.

Corrosive Impact: Leaded Water & One Flint Family's T...

Read more: Michigan Democracy Watch Project (http://www.aclumich.org/democracywatch/index.php/entry/corrosive-impact-leaded-water-and-one-flint-family-s-toxic-nightmare)

Lead leaches into 'very corrosive' Flint drinking water, researchers say

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on September 02, 2015 at 5:41 PM, updated September 03, 2015 at 9:01 AM

Flint Journal file photo

FLINT, MI -- Flint drinking water is "very corrosive" and "causing lead contamination in homes," researchers from Virginia Tech University reported online Wednesday, Sept. 2.

"On a scientific basis, Flint River water leaches more lead from plumbing than does Detroit water," the report concludes. "This is creating a public health threat in some Flint homes that have lead pipe or lead solder."

The Virginia Tech report comes as students there, overseen by Professor Marc Edwards, are in the final days of testing water collected from 300 sample kits distributed to Flint residents.

On Monday, Aug. 31, the researchers reported 42 percent of 120 initial samples from Flint had lead levels that were more than 5 parts per billion, "which suggests a serious lead-in-water problem, according to our experience and criteria."

Virginia Tech was initially contacted by a Flint resident who had concerns about lead in **Flint water**. It has been working with citizen groups in Flint such as Water You Fighting For.

Twenty percent of the first samples also exceeded the U.S. Environmental Protection Agency lead action limit of 15 ppb, the report said.

The EPA requires water systems like Flint's to collect tap samples from sites that are more likely to have plumbing materials containing lead.

If more than 10 percent of samples exceed 15 ppb, then water systems are required to take action, including steps to optimize corrosion control treatment.

Lead is a toxic metal that was used for many years in products found in and around homes, according to EPA.

"Even at low levels, lead may cause a range of health effects, including behavioral problems and learning disabilities," EPA's website says. "Children 6 years old and under are most at risk because this is when the

brain is developing."

The Virginia Tech report on Flint River water comes two days after representatives of three organizations delivered more than 26,000 online **petition signatures to Mayor Dayne Walling**, demanding the city end its use of the Flint River and **reconnect the city to the Detroit water system**.

The petition language says high lead levels are one reason the city should no longer use the river as a drinking water source.

Walling and Department of Public Works Director Howard Croft issued statements in response to questions about lead in Flint water Wednesday after Croft declined to discuss the issue in a news conference Tuesday.

Flint spokesman Jason Lorenz said the two would not comment further Wednesday.

"The city of Flint is currently in compliance with the safety mandates of the Michigan Department of Environmental Quality and continues to work with them to stay in compliance with all safety and quality standards," Croft's statement said. "We have also been in constant contact with Virginia Tech, sharing information as it becomes available."

Walling, who has supported Flint's continued use of the Flint River as a drinking water source, said, "Lead can be a concern in communities with older public and private infrastructure.

"The city of Flint has offered free and independent testing to residents since spring, and I encourage people to use this service if they have questions," Walling's statement said.

Edwards, a professor of civil and environmental engineering, said the elevated lead levels he has seen in Flint tap water are tied to a corrosive water source that contains about eight times more chloride than Detroit water does.

"Chloride is generally considered to be very corrosive to iron. For instance, chloride present in road salts applied in the winter causes iron in cars and bridges to rust," the Virginia Tech team's website says.

"This could be a huge public health problem. ... The Flint water just ate the pipe up," Edwards said of the testing he has overseen so far.

In the testing, researchers took copper pipe pieces joined with lead solder inside them, according to the report, which says lead solder is probably present in plumbing systems of many Flint homes built before 1986.

Lead solder-copper pipe test pieces were placed in containers filled with water from Detroit and Flint in the experiment, according to the report.

"If it were me, I would not be using (Flint River water) for cooking or drinking unless I had it tested for lead," said Edwards, who previously mounted a six-year campaign that succeeded in forcing the U.S. Centers for Disease Control and Prevention to admit it had misled the public about the risk of lead in the Washington, D.C., area's drinking water, according to The Washington Post.

"Bottled or filtered water (is what I would use for) children under 6 years old or if I was pregnant," he said.

Brad Wurfel, communications director for the state Department of Environmental Quality, said the preliminary water testing results from Virginia Tech don't jibe with two separate rounds of testing during the past year by the city.

That testing indicated "Flint drinking water meets state and federal safe drinking water standards," Wurfel said.

Wurfel said lead levels detected in testing are not the result of water containing lead when it leaves Flint's treatment plant. But he said the state "has requested Flint optimize its water treatment to further limit exposure to lead from plumbing in homes."

The concerns about lead are the latest challenge for the Flint water system since the city started using the Flint River to replace Lake Huron water sold by the city of Detroit in April 2014.

Since the switch, the city has been plagued by issues such as water main breaks and boil water advisories because of bacteria and has been in violation of the Safe Drinking Water Act because of high levels of total trihalomethanes (TTHM), a byproduct of chlorinating river water.

The Rev. Allen Overton, who hand-delivered petitions to Walling on Monday, asking that city officials reconnect the Flint water system to Detroit, said Wednesday that the Virginia Tech experiment is more evidence Flint is not using the best quality of water available.

"We have a major health issue here, (and) they are not being honest with the citizens of Flint," Overton said.

City Council President Josh Freeman said the city has been willing to provide customers with free water testing and has taken action — such as installing a new $1.6 million filtration system — to address problems such as TTHM.

Councilman Eric Mays said, as more water testing is done, it becomes clearer that Flint should be negotiating with Detroit for a new, short-term water contract as work continues on the Karegnondi Water Authority pipeline.

The pipeline, a partnership between the city and Genesee County, is expected to bring untreated Lake Huron

water to Flint at some point in 2016.

"They are trying to make the water safe by trial and error," said Mays, who called Flint's water situation "a disgrace."

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Menu

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Test Update: Flint River water 19X more corrosive than Detroit water for Lead Solder; Now What?

September 11, 2015 (http://flintwaterstudy.org/2015/09/test-update-flint-river-water-19x-more-corrosive-than-detroit-water-for-lead-solder-now-what/) Siddhartha Roy (http://flintwaterstudy.org/author/flintwaterstudy/) Articles (http://flintwaterstudy.org/category/articles/), Research Updates (http://flintwaterstudy.org/category/research-updates/)

We are now three weeks into our laboratory experiment w.r.t. testing the relative corrosivity of Flint River water versus Detroit water (http://flintwaterstudy.org/2015/09/flint-rivers-water-is-very-corrosive-to-lead-and-causing-lead-contamination-in-homes/). As the test continues, it becomes a more accurate measure of the relative corrosivity of the two waters. We previously noted, that it would be expected that Flint River water would be much more corrosive than Detroit water, due to its higher chloride content.

Experiment: When we visited Flint, we took pieces of copper pipe joined with lead solder (old solder is 50% lead by weight (http://www.copper.org/environment/water/e_p_lead.html)) inside them. Lead solder is probably present in the plumbing of many Detroit/Flint homes built before 1986 when it was banned from use in drinking water systems (http://www.copper.org/environment/water/e_p_lead.html). We put the lead solder-copper pipe test pieces in 250 mL containers, and filled them with the following three waters:

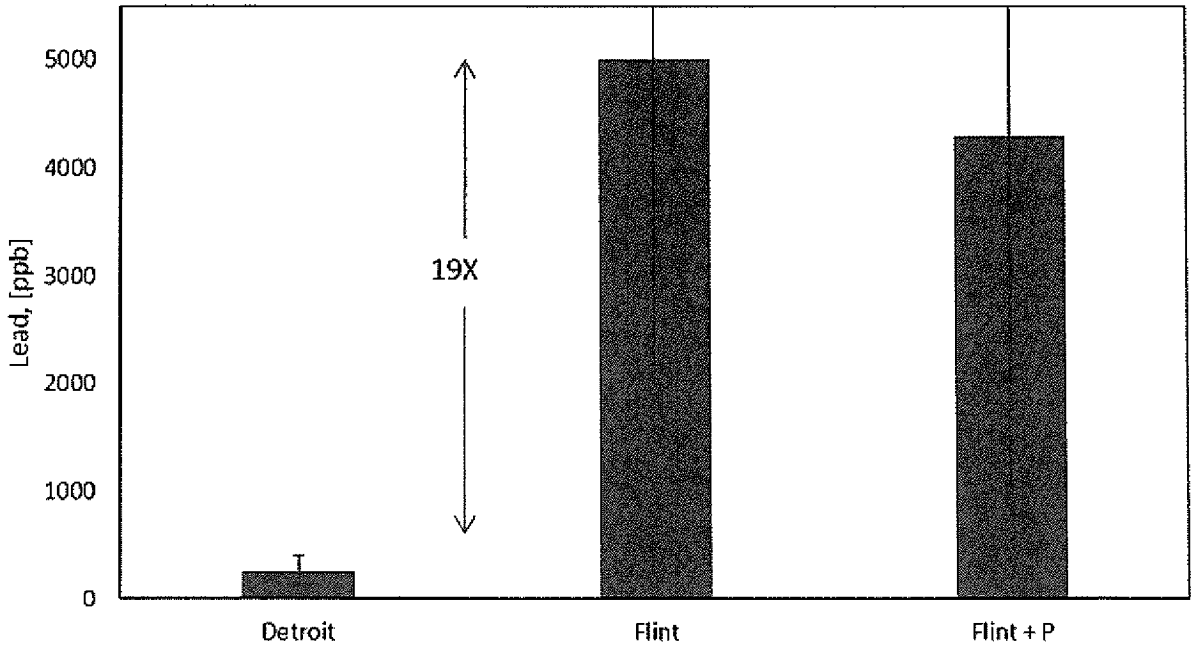
Test 1) Detroit water

Test 2) Current Flint River water

Test 3) Current Flint River water with orthophosphate (a typical corrosion inhibitor (http://www.lenntech.com/products/chemicals/water-treatment-chemicals.htm#Corrosion%20inhibitors))

Test 3 was conducted, to see if ***adding orthophosphate to Flint River water would stop lead corrosion.*** About 50% of water companies in the U.S. add orthophosphate to their water to control lead corrosion, but it is not currently added to Flint River water.

Results and Observations:



(http://i2.wp.com/flintwaterstudy.org/wp-content/uploads/2015/09/update.png)

Figure 1 – Data from Week 3 comparing lead corrosion in Detroit water (left), current Flint water (middle), and Flint water with orthophosphate (right)

From the data shown above in Figure 1, it is clear that Detroit water is much less corrosive to lead solder than the Flint River water. **On average, Detroit water is 19 times (or 19X) less corrosive than the Flint River water currently in use.** That is, the current Flint River water leaches 19X more lead to the water than Detroit water. This explains why the lead in Flint's water in our survey, is so high, (http://flintwaterstudy.org/information-for-flint-residents/results-for-citizen-testing-for-lead-300-kits/)even when it was low before when Detroit water was being used.

We can actually still see the high lead in the Flint River water test by eye (i.e. as white particles suspended in the water (http://flintwaterstudy.org/2015/09/flint-rivers-water-is-very-corrosive-to-lead-and-causing-lead-contamination-in-homes/)). Lead levels in our test with Flint River water, were slightly above hazardous waste levels (5000 ppb), which is still lower than the worst levels of lead we detected in the

home of Flint resident Lee-Anne Walters (http://flintwaterstudy.org/2015/08/hazardous-waste-levels-of-lead-found-in-a-flint-households-water/).

Orthophosphate still does not seem to help stop lead leaching in Flint River water, which is also consistent with expectations based on experiments in high chloride water (http://www.sciencedirect.com/science/article/pii/S0010938X11000382). There is a slight improvement, but even with phosphate, Flint River water has 16 times more lead compared to the same condition using Detroit water. We will continue to run these tests, but at present it does not seem like orthophosphate will provide a quick answer to the very high lead levels in Flint water.

Conclusion: On a scientific basis, Flint River water leaches more lead from plumbing than does Detroit water as predicted before (http://flintwaterstudy.org/2015/08/why-is-it-possible-that-flint-river-water-cannot-be-treated-to-meet-federal-standards/). **This is creating a public health threat in some Flint homes that have lead pipe or lead solder. Unfortunately, adding orthophosphate corrosion inhibitor to the Flint River water, does not solve the lead problem.**

PRACTICAL IMPLICATIONS

We believe, that in the weeks and months ahead, MDEQ and Flint will be forced to admit they failed to protect public health as required under the Federal Lead and Copper Rule. The question that will then be asked is "What can be done to protect residents?"

Step 1: Issue Scientifically Sound Advice.

The first step is to admit that **the water in Flint is not safe for cooking or drinking** (http://flintwaterstudy.org/information-for-flint-residents/results-for-citizen-testing-for-lead-300-kits/)— a fact that MDEQ still denies. According to MDEQ statements provided to reporter Ronald Fonger this week, which were presented to us for comment, MDEQ's Brad Wurfel asserts that:

> ***"the issue here isn't Flint's water source or water plants. It's the high number of older homes with lead pipes and lead service connections....Folks who have concerns should get a water specialist to take a look at their home and see what they need to do to achieve peace of mind, because lead and copper are home plumbing problems that no water source can eliminate entirely."***

We note that this is the exact same position that MDEQ and the city took months ago, after Lee-Anne Walters' child was lead poisoned from exposure to high lead in Flint water (http://www.abc12.com/home/headlines/Flint-mother-said-the-water-gave-her-son-Lead-poisoning-324496551.html). After MDEQ and the City blamed Ms. Walters home plumbing for the problem, an EPA water specialist did come to her home and inspected her plumbing. His finding: There were no lead plumbing sources in her home (http://www.aclumich.org/sites/default/files/file/EPAWaterReport062415.pdf). How does that finding, provide Ms. Walters and other Flint residents, with "peace of mind?"

Likewise, during our sampling events in Flint homes (http://flintwaterstudy.org/information-for-flint-residents/results-for-citizen-testing-for-lead-300-kits/), we are finding very high lead in other homes with modern lead free plumbing, which again points to city owned lead pipes and corrosive water as the problem.

On the basis of these facts, we consider MDEQ's position to be both unscientific and irresponsible, and we stand by our recommendations to Flint consumers, that they immediately reduce their exposure to high lead in Flint's water by implementing protective measures when using tap water for drinking or cooking.

Step 2. Implement Corrosion Control.

The second step will ultimately require some sort of corrosion control treatment to reduce lead in Flint water. Three options are possible as detailed below:

1. **Switch back to the non-corrosive Detroit water.** It is our opinion, based on years of experience, that Flint's lead levels would drop markedly in about one month.
2. **Add orthophosphate to Flint River water.** As indicated in this work, orthophosphate will not reduce lead leaching from all lead plumbing sources. On the basis of our extensive experience, we would only expect modest improvements to water lead levels if orthophosphate was added.
3. **Wait for KWA pipeline.** If orthophosphate was added to water from the KWA pipeline, it would be about the same corrosivity as Detroit water (Option A). In that case, Flint residents will have to live with the very high lead in their water, until at least one month after the pipeline is connected.

Politicians and residents will ultimately have to look at which of the above options is best for Flint, after weighing feasibility and costs.

Experiments and analysis: Christina Devine

Primary Author: Dr. Marc Edwards

Acknowledgements: Siddhartha Roy

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Our VT Research Team wins $50,000 grant from the National Science Foundation to study Flint water (http://flintwaterstudy.org/2015/09/our-virginia-tech-research-team-wins-a-50000-grant-from-the-national-science-foundation-to-study-flint-water/)

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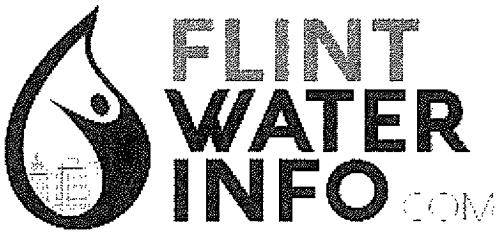

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Lead levels in Flint water spiked after switch to river, state records show

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com**
on September 19, 2015 at 5:50 AM, updated September 19, 2015 at 7:59 AM

Flint Journal file photo

FLINT, MI -- City officials insist their own testing shows Flint water is **safe** and within federal guidelines for lead.

But those same tests also show lead levels have been rising since the city began using the Flint River for water 16 months ago.

The results of Flint's testing for lead since 1992, released by the state Department of Environmental Quality to The Flint Journal-MLive, show 10 percent of homes sampled in the city's most recent testing contained 11 parts per billion or more of lead, with six of 69 samples exceeding the federal lead limit of 15 ppb.

Those are the highest lead levels measured in Flint by the city in more than 20 years, the state data shows.

In contrast, the city's tests of Lake Huron water from Detroit for one 10-year period -- from June 2001 until September 2011 -- resulted in just one of 155 samples registering higher than 15 ppb of lead.

Flint began treating river water in April 2014 after Detroit terminated an expired contract for selling water to the city. The cutoff came after Flint joined Genesee County to form the Karegnondi Water Authority, which is building a new pipeline to Lake Huron, a project that's expected to be completed sometime next year.

City and state officials have pointed to their own testing as evidence that Flint water is safe and under the 15 ppb limit, but have said little about the lead level drifting up.

Marc Edwards, who is supervising separate water **testing in Flint by Virginia Tech University**, said there's no mistaking the pattern.

"The Flint River -- based on the chemistry -- has an obvious propensity for lead to be released to water," Edwards said. "There should have been red lights flashing (when the city began using the river in April 2014) -- knowing that if you put that water into Flint's system without corrosion control, you're going to see a massive lead release."

That release is what Edwards' testing has shown as 10 percent of homes sampled by students and faculty from Virginia Tech have had lead levels of at least 25 ppb.

Since the testing started, Mayor Dayne Walling announced Flint would speed up development of a plan for reducing corrosiveness of city water and called for $10 million in state funds to begin replacing lead and lead solder in water service lines and plumbing.

Flint Department of Public Works Director Howard Croft would not attribute higher lead levels to the river alone, but said the source of the water is one variable as is the amount of time water is stagnant in pipes.

"Lead is in there. It's always been there," Croft said. "We would like there to be no lead, (but) I'm happy how aggressively we are responding" to what the city has.

Steve Busch, Lansing and Jackson district supervisor in the DEQ's office of drinking water and municipal assistance, said lead testing results vary in many areas and a shift doesn't necessarily show Flint River water is more susceptible to higher lead levels than lake water.

"We see numbers fluctuate with the same treatment and the same water," Busch said. "We have levels go up and down from monitoring round to monitoring round."

Lead is a toxic metal that was used for many year in products found in and around homes, according to the U.S. Environmental Protection Agency. Even at low levels, lead may cause health effects such as behavioral problems and learning disabilities.

Current regulations for lead in water began in 1992 and require a limited amount of testing to measure the degree to which lead leaches into tap water after flowing through lead service lines and lead solder in home plumbing.

If more than 10 percent of tap water samples from water systems exceed 15 ppb, the water system can be required to take steps like making water less corrosive or replacing lead service lines.

Since the EPA announced its lead and copper rule in 1991, Flint has collected 33 samples every six to 36 months but the number of tests increased after the city changed its water source to the river,

according to state data.

State records show 100 samples were collected from Flint in the last six months of 2014, showing two sites with readings of more than 15 ppb of lead and 10 percent of homes registering at 6 ppb or more.

From January until June this year, the city collected just 69 samples, a reduction that was allowed because Flint's population had dropped below 100,000, Busch said.

The last time testing by the city showed a higher percentage of water samples above 11 parts per billion was 1992, immediately after new lead and copper rules went into effect.

In that case, the city of Detroit took five years to develop a plan to better control corrosion and lead levels and brought lead levels down from a high of 15 ppb in 10 percent of samples taken in Flint.

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Flint pediatricians raise alarm about lead levels in city water

By SARAH HULETT (/PEOPLE/SARAH-HULETT) • SEP 24, 2015

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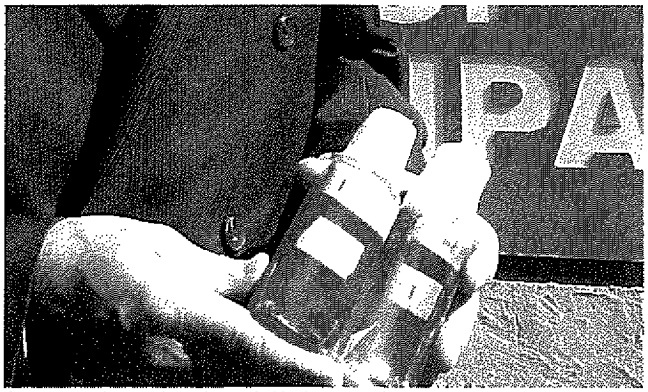

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Water samples from Flint, on the left, and Detroit.

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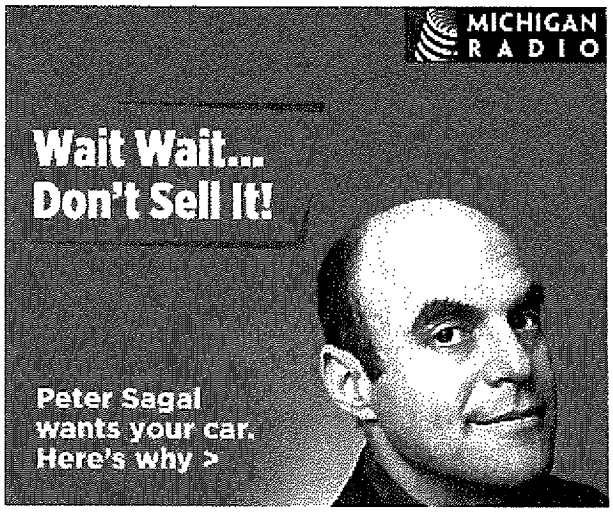

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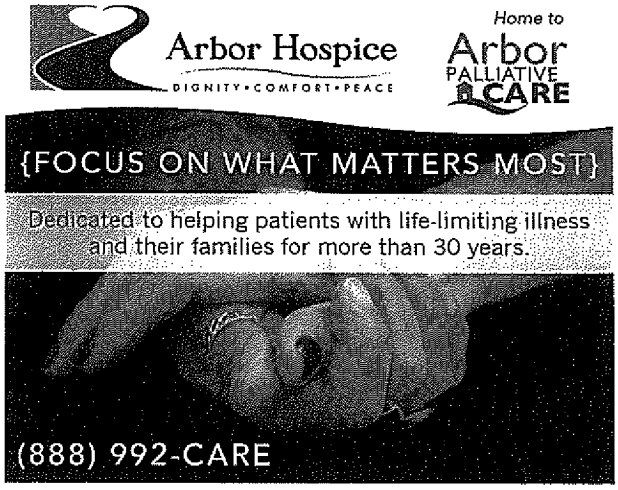

The water in Flint is likely poisoning kids.

That's what pediatricians in the city say, after looking at lead levels in young children before and after the city switched the source of its drinking water from the Detroit water system to the Flint River.

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There's a long list of complaints about Flint's water. But physicians are really concerned about this one.

"My research shows that lead levels have gone up. I cannot say it's from the water, but that's the thing that has happened," said Dr. Mona Hanna-Attisha, a pediatrician with Hurley Children's Hospital.

Hanna-Attisha says she decided to look into blood-lead levels after researchers from Virginia Tech found elevated lead levels in tap water due to the corrosive nature of the river water.

She analyzed blood test results of 1,746 children age five and younger from Flint, and 1,670 non-Flint children. Before the switch, 2.1% of Flint children had elevated blood lead levels. After the switch, that rate jumped to 4%. By comparison, the rate for non-Flint children went from .6% to 1%, which Hanna-Attisha says is statistically insignificant.

She calls the city's response to water quality problems "inadequate," and says precautions need to be taken immediately.

"Because the impact of not doing anything will haunt us for years to come," says Hanna-Attisha, citing interventions like special education, lost productivity, and incarceration costs associated with high lead levels. "The cost will be astronomical in decades to come. So we cannot wait until this year or next year. We have to think five years from now, ten years from now."

Hanna-Attisha and other physicians are urging the city to issue an advisory about how to minimize exposure to lead in the water. The county health department says it's drafting that advisory now.

The news about the elevated lead levels did not surprise Lee Anne Walters. She found out her son had alarmingly high lead levels in April of this year.

"I kept talking to the doctors, trying to figure out why he wasn't growing," says Walters. "He was 27 pounds at four years old. His hair was thinning, breaking out in rashes."

Walters says her son would get a rash when he took baths. There would be a line on his body that corresponded with where the bath water ended. Above it, his skin was fine. Below it, where his skin was underwater, he'd get a rash.

"The doctors in the city gave me a hard time testing my kids," says Walters. "I took them out the city to a dermatologist down in Brighton, who ran the test and called me personally to tell me that he did have lead poisoning and anemia from the lead poisoning, and he's having speech problems."

It turns out the rash was probably from a chlorine byproduct the city had to dump into the river water to kill the E. coli that had made people sick the summer before.

People knew that chemical – it's called TTHM – was a problem. But lead wasn't on many people's radar until a guy named Marc Edwards came to town.

"I want them to take responsibility. I want them to quit poisoning their citizens."

Edwards is a researcher from Virginia Tech. His tests of Flint tap water found lead levels in some homes that were higher than federal regulators allow – and a lot higher than the city found in the tests it conducted. He says the river water is so corrosive it's eating the lead from old pipes and solder.

"That's why we are actually asking for funding to help with infrastructure," said Flint City Administrator Natasha Henderson. "It's not a secret that the city is very financially distressed."

Henderson and other city officials say they're working with state and federal regulators to get a handle on the problem.

But they're quick to point out that the city's own tests show it's in compliance with the Safe Drinking Water Act.

But activists say they don't trust how the city arrived at that conclusion, and point to the Virginia Tech results as evidence that the city has been conducting flawed testing.

"I want them to take responsibility," says Lee Anne Walters, the mother whose son has experienced health problems since the switch. "I want them to quit poisoning their citizens."

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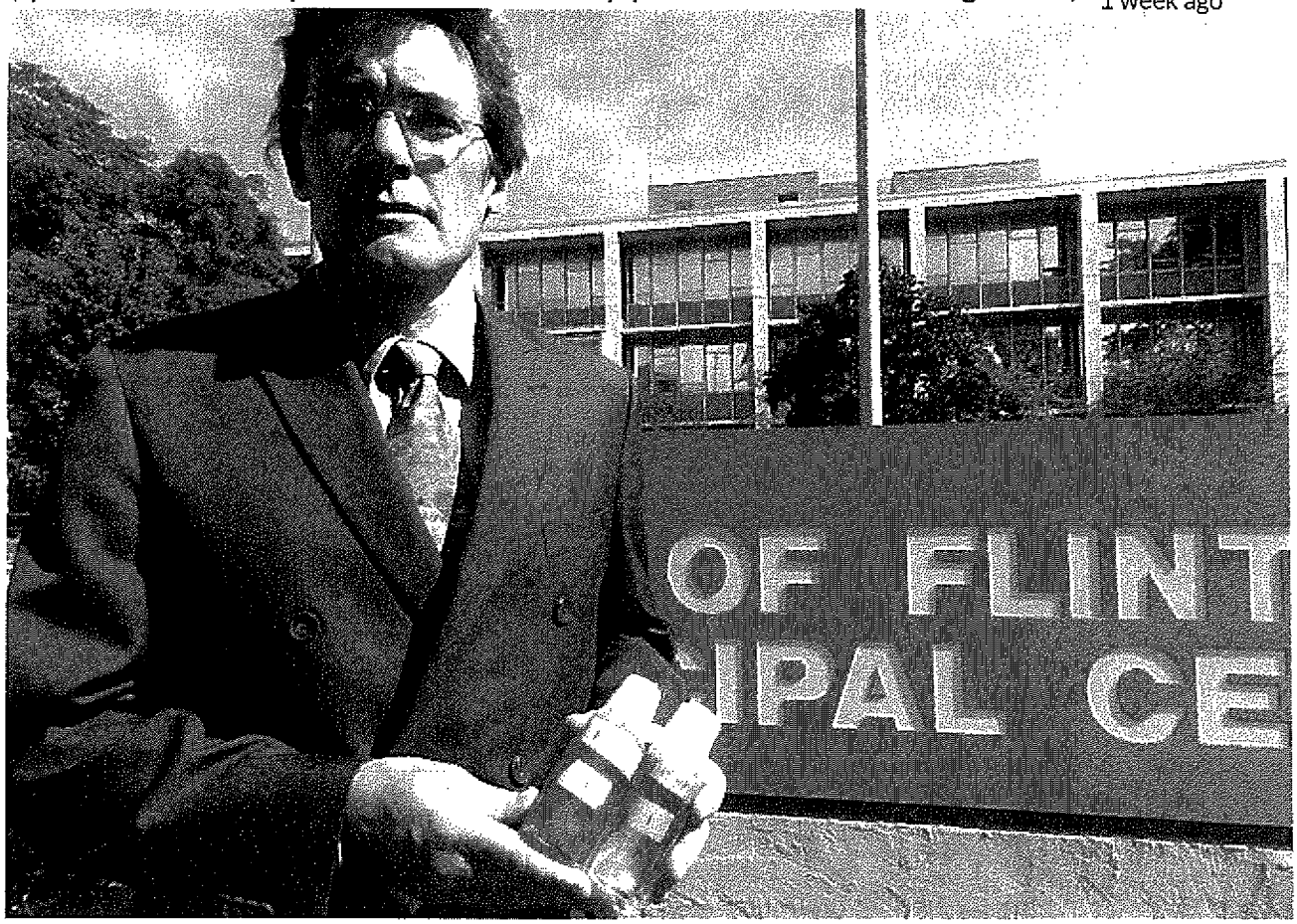

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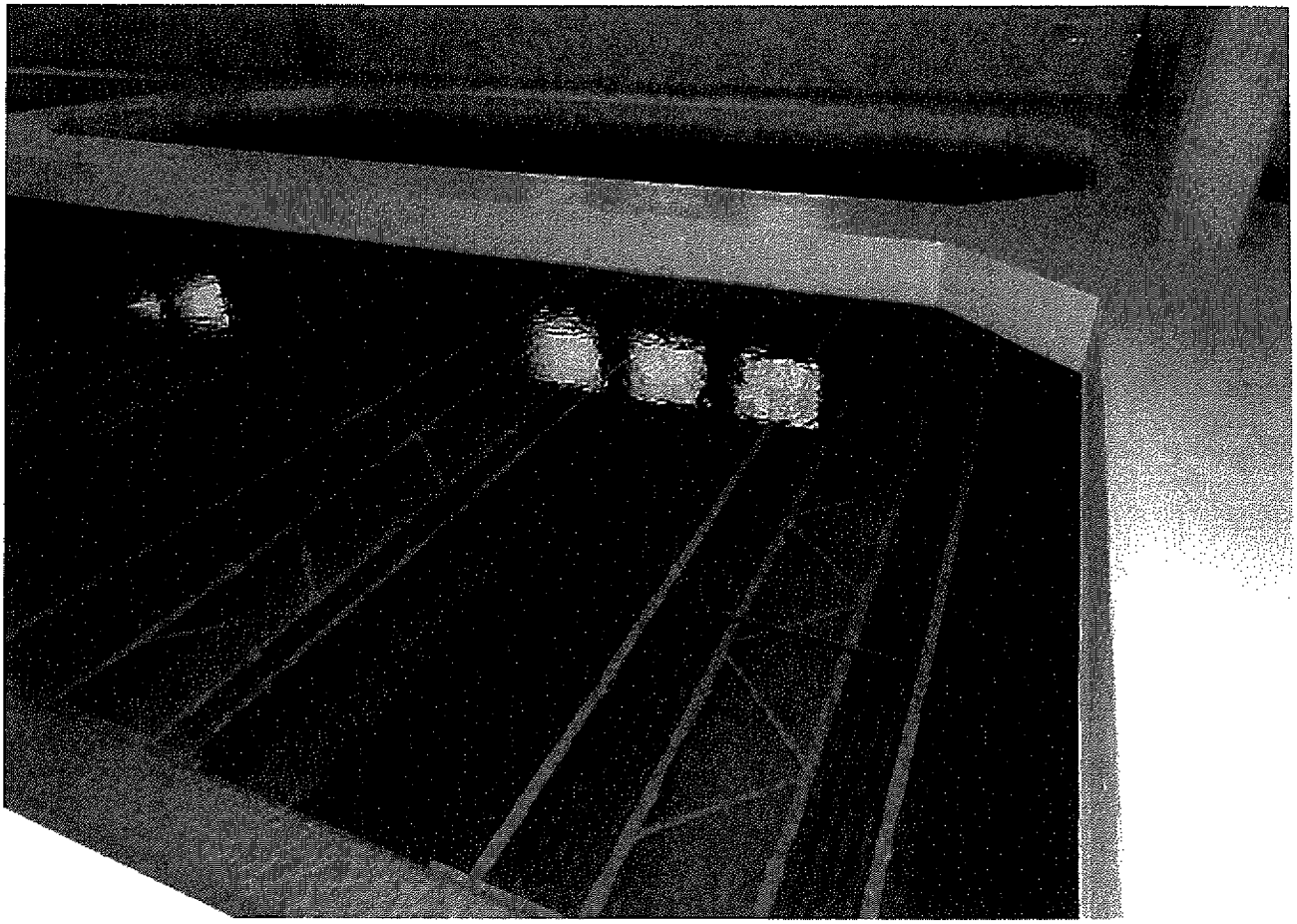

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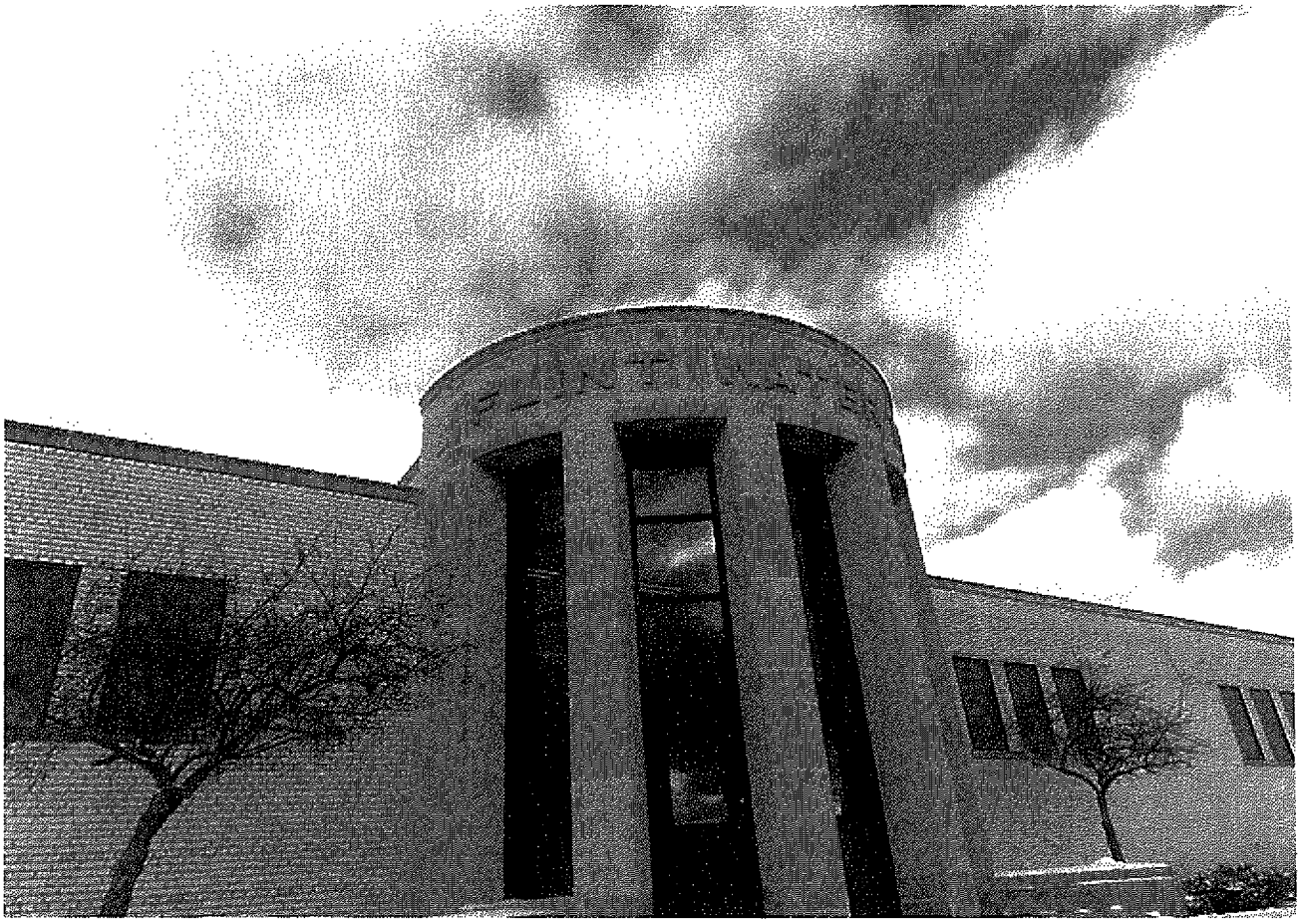

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michigan man •

Let's be clear...this situation is at least partly a result of massive cuts in state revenue sharing, which led the city to take dramatic steps to cut its costs...and now people are paying the price. But hey, we cut taxes at the state level (and our per cap income is still in the bottom 15 in the nation).

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Allison MacArthur-Ruesink •

This has nothing to do with Cost Cuts. The MDEQ is rife with corruption. perhaps the "employee" who had oversight of this facility was also hired and promoted based upon a family connection with a member of the Water Division's "Hot Tub Club" instead of experience and education!? I complained about the problems as far back as the early 2000's, even to Governor Grandholm's husband via Reading for Leading. Nothing was corrected !! Employees who speak out are harassed mercilessly and even worse as in my case. When I did not voluntarily retire after being asked 3x by MDEQ's Jon E. Russell, he conspired and fabricated a case to get rid of me!! I took a polygraph from Forensic Polygraph Services (Mr. Neil Myers) to prove I was telling the truth

but Michigan's corrupt Attorney General Bill Schuette and his equally corrupt Assistant AG Joseph Yung-Kung Ho (P-77390) have denied me any measure of Justice!! It is not a coincidence that the Judge involved with my case Thomas Wilson Jackson County Michigan used to work for the AG's Office. Everything was filed in a timely manner!! The MDEQ have even refused my receiving copies of my OWN PERSONNEL FILE! This is Michigan's way of saying "Thanks for 30 years of Service" They pulled this BS 65 days before my 55th birthday so they could deny my collecting my Retirement Benefits before age 60. Does someone have to die before the Bureaucracy cleans its own house?! Read "Well of Lies" about how inept and unqualified public servants who are unqualified or just plain corrupt, can injure innocent people!!

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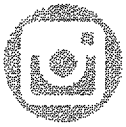
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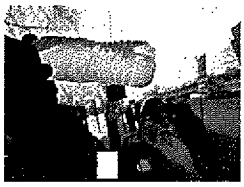
Doctor: Lead seen in more Flint kids since water switch

By Robin Erb, Detroit Free Press 6:44 p.m. EDT September 25, 2015

Number of Flint children with lead poisoning jumps after Flint water switch, says researcher.



(Photo: Ryan Garza, Detroit Free Press)

Flint's ongoing water woes are now associated with an immediate and irreversible danger — possible lead poisoning of some of the city's children, according to a review of blood test results by a Hurley Children's Hospital pediatrician.

"I was hoping not to find anything, but what we found ... is concerning," said Dr. Mona Hanna-Attisha who also leads the pediatric residency program at Michigan State University's College of Human Medicine.

"This is not something you mess around with," she said. "Our population already has so many issues from poverty, from unemployment, from violence."

State officials say their own review of blood test results have not shown the same increase that Hanna-Attisha found. Moreover, water tests have similarly shown lead within federally accepted levels, they say.

Hanna-Attisha examined results from blood samples of Genesee County children taken both before and after the city ended its water contract with the Detroit Water and Sewerage Department (http://www.dwsd.org/)and began pulling water from the Flint River.

The number of Flint children with elevated blood-lead levels — 5 micrograms per deciliter or more — jumped from 2.1% in the 20 months prior to Sept. 15, 2013, to 4.0% between Jan. 1 and Sept. 15 this year. In certain ZIP Codes, the change was even more troubling, she said — jumping from 2.5% of the children tested to 6.3%.

Blood is often drawn by pediatricians as part of routine lead-level testing, especially among children who are on Medicaid. That gave Hanna-Attisha 1,746 test results from Flint children to compare against 1,640 results from elsewhere in Genesee County. Children in Genesee County outside of Flint showed no significant increase in blood-lead levels.

Health officials have said no lead levels are safe (http://www.cdc.gov/nceh/lead/). Lead can lead to serious developmental problems, reducing a child's IQ and causing serious behavioral and emotional problems. Though levels can fall in individuals over time, the damage is permanent.

If Hanna-Attisha's analysis is correct, this upward trend in Flint interrupts years of progress in reducing dangerous blood-lead levels.

State data show that the percentage of children with elevated blood lead levels have been falling for years. In fact in 2013, 3.6% of Flint children younger than 6 had elevated blood-lead levels, compared with the state-wide rate of 3.9%.

Though Hanna-Attisha's review didn't try to determine cause, "we can't think of another reason" for the trend other than the change in Flint's water source.

The review is sure to ratchet up tension in Flint.

In 2014, city officials ended the city's contract (/story/news/local/michigan/2015/01/22/water-woes-latest-hit-flint/22193291/) with the Detroit Water and Sewerage Department (http://www.dwsd.org/), saying that water costs were too high. They opted instead to pull from the Karegnondi Water Authority, which is building a system to supply Genesee County with water pulled from Lake Huron. In the long run, this will mean lower water costs, officials have said.

But until the new system comes online in 2016, Flint is temporarily pulling water from the Flint River. Since it made the switch, residents have complained that the water smells, is discolored and makes them sick.

Soon after the switch, tests indicated the presence of coliform bacteria, which can suggest the presence of other disease-carrying pathogens. The water was then treated with disinfectants, and city officials maintain the water is safe.

The question is not that whether there is a higher level of lead in water from the Flint River — it's that river water may be more corrosive as it travels through lead pipes on residential properties and in homes, said Brad Wurfel, a spokesman for the Michigan Department of Environmental Quality. About 15,000 of the 40,000 Flint customers have lead pipes connecting to the city system, he said.

But he said testing has shown that lead levels in the Flint water system — both before and after the switch in 2014 — have been under the acceptable limit of 15 parts per billion during every three-year testing cycle since 1992. Additionally, two rounds of supplemented tests since the system switch put

lead levels at 6 parts per billion and then at 11 parts per billion — a change that Wurfel said fits in line with previous fluctuations.

Congressman Dan Kildee, a Flint Democrat, called state and local testing "lackluster."

For one thing, Flint residents collect samples, and there are concerns that there are too few samples and that they represent only some parts of the city. And Wurfel confirmed that about 60 bottles of water samples were turned in by citizens in the last round of testing, even though 200 bottles were sent out.

In the best of circumstances — with enough sampling and previous clean tests of water — citizen sampling might be adequate. But, in Flint — where there's a major change in the system that some residents say have led to health problems, "it seems to be a much higher standard would apply," Kildee said.

In addition to water testing, Wurfel a said state public health officials have reexamined results of blood-lead level testing among Flint children. In short, that data doesn't show the same upward trend that Hanna-Attisha's found, he said.

Wurfel said environmental officials aren't taking the matter lightly, and they realize the water system is in "dire" need of an overhaul. They've requested a meeting with U.S. Environmental Protection Agency authorities to "review protocols" to make sure the state's testing is adequate.

"Lead is serious. Lead builds up. Lead effects children. It's not something we take lightly," he said. "We're confident with what we've done, but we know there are concerns."

Angela Minicuci, a spokeswoman for the Michigan Department of Health and Human Services, any increase in the past year in blood-lead levels among Flint children is attributed to predicable seasonal spikes.

In the year preceding the change in the water system, 95 Flint children younger than 16, or 2.4% of those tested, had elevated blood-lead levels, according to state data. The following year, 123 children, or 3.2%, of those tested had elevated blood-lead levels.

There is "cause for concern in Flint," but it cannot be attributed to the water, she said.

Contact Robin Erb: rerb@freepress.com (mailto:rerb@freepress.com) or 313-222-2708. Follow her on Twitter @Freephealth. (https://twitter.com/FreepHealth)

Free Press staff writer Kristi Tanner contributed to this report.

Lead's toll (https://www.nlm.nih.gov/medlineplus/ency/article/002473.htm) on children:

Lead can affect many parts of the body, and is most harmful when there is repeated exposure, even to small amounts. Even low levels of lead exposure can harm a child's mental development, and the problems worsen as blood-lead levels get higher.
The younger the child, the more harmful the exposure; unborn children are the most vulnerable, according to the National Institutes of Health.

Among possible complications:

- Behavior or attention problems
- Failure at school
- Hearing problems
- Kidney damage
- Reduced IQ
- Slowed body growth

Very high levels of lead may cause vomiting, a staggering walk, muscle weakness, seizures, or coma.

For more information, visit www.cdc.gov. Search "lead poisoning."

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Oct. 1, 2015, 9:40 a.m.

Statesman Tribune

High amount of lead found amid Flint children while switching waters

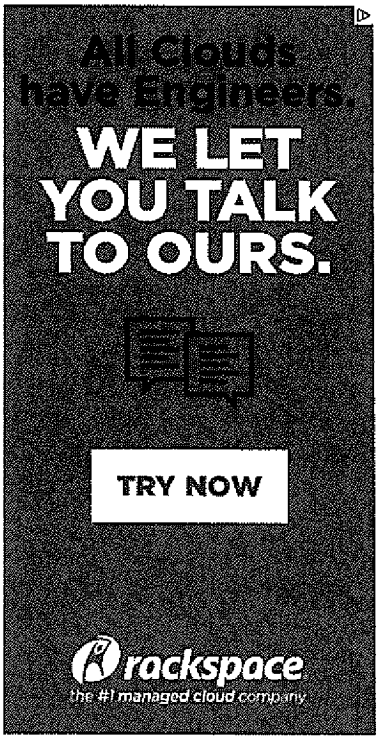
SEPTEMBER 27, 2015 BY DAVID BRYAN IN HEALTH 0 COMMENT

t's exhausting to know the resounding yawn that appears to have emanated .from the governor's workplace, following information that an growing share of Flint children have been lead poisoned after a change within the metropolis's water provide.

A spokeswoman for the Michigan Division of Well being and Human Providers despatched a Free Press knowledge analyst a chart she claimed would refute a report issued by a Hurley Medical Heart researcher, who discovered that because the metropolis began pumping water from the Flint River final April, the share of Flint youngsters with elevated blood-lead ranges has greater than doubled in some ZIP codes.

In reality, the state's information helps the Hurley researcher's declare — the variety of children with lead poisoning had been falling in Flint and throughout the state, till the water change. Now it is rising.

A spokeswoman for Gov. Rick Snyder wrote in an e-mail that the Hurley knowledge had been "spliced and diced," a suggestion that it's one thing apart from correct — though the state's personal knowledge bolsters the Hurley report.



And officers throughout the administration have hastened to insist that Flint's water is protected and to recommend that though printed reviews say Michigan Division of Environmental High quality information present elevated lead ranges in Flint's water, there's no motive to suspect that has prompted extra Flint children to undergo from lead poisoning. And thus far, none of it has it spurred them to motion.

However here is the scenario: There's extra lead in Flint's water than there was. And extra Flint youngsters have lead of their blood, one thing that results in severe, irreversible behavioral and developmental issues.

The way it occurred

The Metropolis of Flint determined in 2013 to affix the brand new Karegnondi Water Authority, together with Genesee, Sanilac and Lapeer counties. That system will not be full till 2016. Within the interim, the town — below former emergency supervisor Darnell Earley — opted to pump its water from the Flint River, as a substitute of constant to buy it from the Detroit Water and Sewerage Division — partly, state officers say, as a result of DWSD deliberate to lift its charges for a brief-time period contract. Town thought-about mixing Lake Huron and Flint River water, however finally selected to tug water from the Flint River alone. Genesee County, in distinction, will proceed to buy its water from DWSD whereas the brand new system is below building.

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Researchers say that Flint River water, extra corrosive than the Lake Huron water pumped by the Detroit Water and Sewerage Division, is leaching lead from the town's ageing infrastructure into the water provide.

The town, and its residents, need assistance. Within the close to time period, residents — particularly residents with formulation-fed infants, whose diets are composed virtually fully of water — residing in poverty want help to buy bottled water or filtration programs. And town wants to think about its lengthy-time period choices, particularly, whether or not to reconnect to DWSD till the Karegnondi system is full.

That would not be a easy course of. Former Flint EM Darnell Earley, now EM for Detroit Public Colleges, wrote in an e-mailed assertion that he was not concerned within the determination to make use of river water, though it occurred throughout his tenure. He was additionally EM when a 9-mile part of pipe was bought to Genesee County, a call he wrote was within the works earlier than his appointment, which means the town cannot reconnect to the Detroit system with out the cooperation of Genesee County.

Neither is the upper value of shopping for water from DWSD — about $1.5 million a month — within the metropolis's price range, Flint Mayor Dayne Walling mentioned. The town, which emerged from state oversight this yr, would want the approval of its transitional advisory board to extend its water price range.

Flint, by the way in which, is broke.

U.S. Rep. Dan Kildee and state Senate Majority Chief Jim Ananich, each Flint Democrats, have pledged to deliver monetary and sensible help to the district.

For now, Walling mentioned, Flint's water therapy plant will start so as to add anticorrosive brokers to the Flint River water, which can take weeks to affect the water provide.

If I lived in Flint, I might be mad. If I had been a Flint mum or dad, with a little one who'd spent the final 12 months and a half ingesting lead-contaminated water, I might be in despair.

We're speaking a few public well being disaster — one that would have been prevented.

Whose fault is it?

Throughout their tenures, emergency managers are the last word authority within the cities they serve.

And so the accountability for Flint's water lies, finally, with Snyder, and the emergency managers he appointed — and it's Snyder who should come to Flint's rescue. Walling says Flint's residents want funds for instant aid, however that the town wants grants to begin to improve its growing older, lead-ridden water infrastructure.

Snyder hasn't hesitated to nominate or retain emergency managers in struggling cities throughout the state, a stance the Free Press Editorial Board has largely supported, with one caveat: Emergency managers need to make issues higher.

That's the premise on which the emergency supervisor legislation is based. Cities are the creation of the state. The state has a accountability to look after the well being and welfare of its residents, and typically, cities face challenges not fixable on the native degree. In these instances, the state should step in.

That is actually the case in Flint, which has suffered from the identical lack of inhabitants — and tax base — as Detroit, however with fewer property with which to leverage a passable consequence.

In these circumstances, the Free Press editorial board has argued, the state has a accountability to behave, to revive some fiscal stability, and thus service supply and high quality of life for residents.

That is the catch.

It would be straightforward to stability any metropolis's finances: Lay off all of the cops, promote all of the ambulances, liquidate town parks. However that would not make life higher for residents. That is the steadiness emergency managers should be conscious of — value financial savings versus high quality of life. Spending cuts versus service supply. A metropolis's backside line cannot be revenue-pushed.

That is the evident weak spot within the emergency supervisor legislation, and it on full show in Flint.

Snyder spokeswoman Sara Wurfel stated the state signed off on the swap on the behest of Walling and the Flint Metropolis Council, and solely "with severe reservations."

That is not precisely how Walling remembers it.

"I didn't assist it come what may," he mentioned. "It wasn't my resolution. I had lots of issues about it that I raised internally, however the funds was in place ... I had loads of considerations about it, however when it was determined that was the choice ... I didn't protest."

When the Flint Metropolis Council voted this 12 months to reconnect to the Detroit water system, then-emergency supervisor Jerry Ambrose known as its resolution "incomprehensible": "Water from Detroit isn't any safer than water from Flint," Ambrose stated, as reported within the Flint Journal.

It is fairly clear that is not true. It isn't clear what anybody from the State of Michigan is ready to do about it.

Sixteen months in the past, Earley and Walling celebrated the town's departure from DWSD, elevating glasses of Flint River water, ready to toss them again, with a toast that strikes a hole word at present: Here is to Flint.

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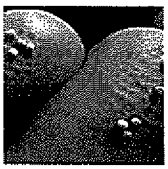
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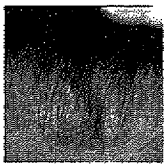
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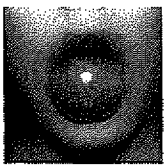
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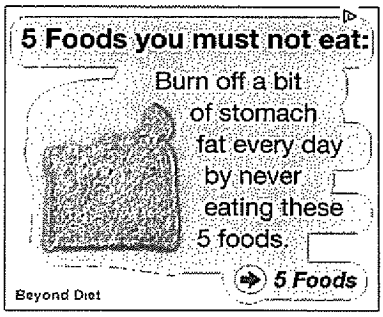

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EXHIBIT N

FOIA Coordinator City of Flint Department of Law
1101 S. Saginaw Street, 3rd Floor
Flint, MI 48502
Fax: (810) 232-2114
Email: ajones@cityofflint.com

Dear FOIA coordinator,

This letter is a request for records under the Freedom of Information Act, MCL 15.231 et seq.

The records I am requesting are:

1. All documents the City of Flint, or its agents, has in its possession, including correspondence, related to any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.
2. All documents the City of Flint, or its agents, has in its possession, including correspondence, related to any communications between the Michigan Department of Environmental Quality, or its agents, and/or the Michigan Department of Treasury, or its agents, regarding any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.
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I am enclosing a check in the amount of $20 as a good faith deposit to cover a portion or all of the cost of these items. If the amount exceeds $20, please contact me by phone at 810-223-7034, to discuss the balance and the basis for the amounts charged beyond $20. If the amount is less than $20 please refund the balance to this office.

Sincerely,

Phil Phelps
819 Main Street
Unit A
Flushing, MI 48433

Michigan Department of Treasury
Attn. FOIA Coordinator
P.O. Box 30716
Lansing, MI 48909

MIStateTreasurer@michigan.gov

Dear FOIA coordinator,

This letter is a request for records under the Freedom of Information Act, MCL 15.231 et seq.

The records I am requesting are:

1. All documents the Michigan Department of Treasury, or its agents, has in its possession, including correspondence, related to any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.
2. All documents the Michigan Department of Treasury, or its agents, has in its possession, including correspondence, related to any communications between the Michigan Department of Environmental Quality, or its agents, and the Michigan Department of Treasury, or its agents, regarding any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.
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I am enclosing a check in the amount of $50 as a good faith deposit to cover a portion or all of the cost of these items. If the amount exceeds $50, please contact me by phone at 810-223-7034, to discuss the balance and the basis for the amounts charged beyond $50. If the amount is less than $50 please refund the balance to this office.

Sincerely,

Phil Phelps
819 Main Street
Unit A
Flushing, MI 48433

FOIA Coordinator
Department of Environmental Quality
P.O. Box 30457
Lansing, MI 48909-7957
Phone: 800-662-9278

deqfoia@michigan.gov

Dear FOIA coordinator,

This letter is a request for records under the Freedom of Information Act, MCL 15.231 et seq.

The records I am requesting are:

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Sincerely,

Phil Phelps
819 Main Street
Unit A
Flushing, MI 48433

EXHIBIT O

City: Keep original and provide copy of both sides, along with Public Summary, to requestor at no charge.

City of Flint
1101 S. Saginaw Street
Flint, Michigan 48503
Fax: (810) 232-2114

Denial Form

Notice of Denial of FOIA Request

Michigan Freedom of Information Act, Public Act 442 of 1976, MCL 15.231, *et seq.*

Request No.: **15-0664** Date Received: **Sept 10, 2015** Check if received via: Email ☐ Fax ☐ Other Electronic Method

Date of This Notice: **Sept 14, 2015** Date delivered to junk/spam folder: _____

(Please Print or Type) Date discovered in junk/spam folder: _____

Name **Phil Phelps**	Phone
Firm/Organization	Fax
Street **819 Main Street Unit A**	Email
City **Flushing** State **MI**	Zip **48433**

Record(s) You Requested: *(see attached copy of original request)*

Your request has been X **Denied** OR ☐ **Granted in part and denied in part.** Please refer to this form for an explanation. If you have any questions regarding this denial, contact Althea Jones at ajones@cityofflint.com, by telephone at (810) 766-7146, or by fax at (810) 232-2114.

Reason for Denial or Partial Denial:

Disclosure of the following information is denied for the following reason(s):

X 2. The records which you have requested **do not exist** under the name given by the requester or by another name reasonably known to this public body or are not retained by this public body in the performance of an official function. This is a certification of their non-existence. **No Records – Requested documents do not exist. Attached please find your check for $20.00.**

The City of Flint FOIA Procedures and Guidelines and Written Public Summary are available at the City's website at:

www.cityofflint.com/legal-2/foia/

Notice of Requestor's Right to Seek Judicial Review

You are entitled under Section 10 of the Michigan Freedom of Information Act, MCL 15.240, to appeal this denial to the Mayor or to commence an action in the Circuit Court to compel disclosure of the requested records if you believe they were wrongfully withheld from disclosure. If, after judicial review, the court determines that the city has not complied with MCL 15.235 in making this denial and orders disclosure of all or a portion of a public record, you have the right to receive attorneys' fees and damages as provided in MCL 15.240. *(See back of this form for additional information on your rights.)*

Signature of FOIA Coordinator: Althea Jones **Date:** 9-14-15

FREEDOM OF INFORMATION ACT (EXCERPT)
Act 442 of 1976

Opt-Out:

15.240.amended Options by requesting person; appeal; actions by public body; receipt of written appeal; judicial review; civil action; venue; de novo proceeding; burden of proof; private view of public record; contempt; assignment of action or appeal for hearing, trial, or argument; attorneys' fees, costs, and disbursements; assessment of award; damages.
Sec. 10.
(1) If a public body makes a final determination to deny all or a portion of a request, the requesting person may do 1 of the following at his or her option:

(a) Submit to the head of the public body a written appeal that specifically states the word "appeal" and identifies the reason or reasons for reversal of the denial.

(b) Commence a civil action in the circuit court, or if the decision of a state public body is at issue, the court of claims, to compel the public body's disclosure of the public records within 180 days after a public body's final determination to deny a request.

(2) Within 10 business days after receiving a written appeal pursuant to subsection (1)(a), the head of a public body shall do 1 of the following:

(a) Reverse the disclosure denial.

(b) Issue a written notice to the requesting person upholding the disclosure denial.

(c) Reverse the disclosure denial in part and issue a written notice to the requesting person upholding the disclosure denial in part.

(d) Under unusual circumstances, issue a notice extending for not more than 10 business days the period during which the head of the public body shall respond to the written appeal. The head of a public body shall not issue more than 1 notice of extension for a particular written appeal.

(3) A board or commission that is the head of a public body is not considered to have received a written appeal under subsection (2) until the first regularly scheduled meeting of that board or commission following submission of the written appeal under subsection (1)(a). If the head of the public body fails to respond to a written appeal pursuant to subsection (2), or if the head of the public body upholds all or a portion of the disclosure denial that is the subject of the written appeal, the requesting person may seek judicial review of the nondisclosure by commencing a civil action under subsection (1)(b).

(4) In an action commenced under subsection (1)(b), a court that determines a public record is not exempt from disclosure shall order the public body to cease withholding or to produce all or a portion of a public record wrongfully withheld, regardless of the location of the public record. Venue for an action against a local public body is proper in the circuit court for the county in which the public record or an office of the public body is located has venue over the action. The court shall determine the matter de novo and the burden is on the public body to sustain its denial. The court, on its own motion, may view the public record in controversy in private before reaching a decision. Failure to comply with an order of the court may be punished as contempt of court.

(5) An action commenced under this section and an appeal from an action commenced under this section shall be assigned for hearing and trial or for argument at the earliest practicable date and expedited in every way.

(6) If a person asserting the right to inspect, copy, or receive a copy of all or a portion of a public record prevails in an action commenced under this section, the court shall award reasonable attorneys' fees, costs, and disbursements. If the person or public body prevails in part, the court may, in its discretion, award all or an appropriate portion of reasonable attorneys' fees, costs, and disbursements. The award shall be assessed against the public body liable for damages under subsection (7).

(7) If the court determines in an action commenced under this section that the public body has arbitrarily and capriciously violated this act by refusal or delay in disclosing or providing copies of a public record, the court shall order the public body to pay a civil fine of $1,000.00, which shall be deposited into the general fund of the state treasury. The court shall award, in addition to any actual or compensatory damages, punitive damages in the amount of $1,000.00 to the person seeking the right to inspect or receive a copy of a public record. The damages shall not be assessed against an individual, but shall be assessed against the next succeeding public body that is not an individual and that kept or maintained the public record as part of its public function.

History: 1976, Act 442, Eff. Apr. 13, 1977 ;-- Am. 1978, Act 329, Imd. Eff. July 11, 1978 ;-- Am. 1996, Act 553, Eff. Mar. 31, 1997 ;-- Am. 2014, Act 563, Eff. July 1, 2015

RECEIVED
SEP 10 2015
CITY ATTORNEY'S OFFICE

FOIA Coordinator City of Flint Department of Law
1101 S. Saginaw Street, 3rd Floor
Flint, MI 48502
Fax: (810) 232-2114
Email: ajones@cityofflint.com

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Sincerely,

Phil Phelps
819 Main Street
Unit A
Flushing, MI 48433

Opt-Out:

EXHIBIT P

Keith,
Just got this email while we were on the phone. The DEQ must have talked to Flint and decided that since Flint is not turning over documents that they are not going to either after they they both told me that they had documents to share.

Thanks,
Phil

----- Forwarded Message -----
From: DEQFOIA <DEQFOIA@michigan.gov>
To: "Phillip Phelps (pphelps277@yahoo.com)" <pphelps277@yahoo.com>
Sent: Monday, September 28, 2015 11:59 AM
Subject: Request for Disclosure of Official Files

Mr. Phil Phelps
819 Main Street, Unit A
Flushing, MI 48433

)ear Mr. Phelps:

SUBJECT: Request for Disclosure of Official Files – **Executive Division and Water Resources Division**

This notice is issued in response to your request for information under the Freedom of Information Act, 1976 PA 442, as amended (FOIA), received on September 8, 2015. You have requested the following information: "Any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint, etc." (FOIA 6422-15).

The purpose of the FOIA is to provide the public with access to existing, nonexempt public records of public bodies. Your request to examine or receive a copy of the documents described above is denied.

To the best of this public body's knowledge, information, and belief, the public record does not exist under the name given by the requester, or by another name reasonably known to the public body.

Under section 10 of the FOIA, the DEQ is obligated to inform you of the following:

1) Appeal this decision in writing to the Director of the Department of Environmental Quality, P.O. Box 30473, Lansing, Michigan 48909-7973. The writing must specifically state the word "appeal," and identify the basis for which the disclosure determination should be reversed. The Director of the DEQ, r his/her delegated designee, must respond to the appeal within 10 days of its receipt. Under unusual circumstances, the time for response to the appeal may be extended by 10 business days.

2) Commence a civil action in circuit court within 180 days after the date of the final determination to deny the request. If you prevail in such an action, the court is to award reasonable attorney fees, costs, and disbursements, and possible damages.

Susan Vorce, FOIA Coordinator
Department of Environmental Quality
800-662-9278
deqfoia@michigan.gov

The DEQ strives to continually improve its customer service to FOIA requesters. To provide input for improvements to the FOIA process, please complete this survey: https://www.surveymonkey.com/s/foiaprocess

EXHIBIT Q

GONGWER Michigan
The Capitol Record Since 1906

Volume #54, Report #195, Article #1--Thursday, October 1, 2015

Senate Activity Report | House Activity Report

Pressure Mounts On Flint Water; Snyder Prepares Actions

A coalition of Flint and state organizations asked the U.S. Environmental Protection Agency on Thursday to order a switchover of the Flint water system with the Detroit Water and Sewerage system, in what is one of the most striking actions in the controversy. The demand came as state officials plan to announce a series of actions on Flint on Friday dealing with the water problems in the city.

One legislator - who also complained he had been denied documents from the state dealing with the switch from the Detroit system to using water from the Flint River (a state official said the wrong documents had been requested) - said there had been a general discussion, but no specifics about what Mr. Snyder might announce. **Rep. Phil Phelps** (D-Flushing) said he expected the state would provide more filters to residents to help curb lead in the water. Filters will be helpful, Mr. Phelps said, but not enough.

Governor Rick Snyder will not be at the event, to be held at Kettering University, but Flint Mayor Dayne Walling, along with Environmental Quality **Director Dan Wyant**, Health and Human Services **Director Nick Lyon**, Urban Initiatives Director Harvey Hollins and the state's chief medical officer, Eden Wells, will speak on the initiatives being pursued.

The presentation will be at 1:30 p.m.at the university's Innovation Center, 1300 Bluff Street.

The controversy over the water in Flint has grown exponentially since indications that lead levels, caused mainly by antique pipes and their connections, were elevated in children who were tested. Researchers said they could not absolutely say the elevated levels were from the water, but the measures showed the increase since the city made the switch. Also on Thursday, it was announced that the city had received donations to provide some 5,000 water filters to help contain the lead.

Prior to the discovery about elevated lead levels, the controversy over the system dealt largely with the smell and taste of the water. Flint switched from using Detroit water to drawing water from the Flint River in 2014 as the city prepared to build its own system that would draw water from Lake Huron. The switch was made largely because Flint and Detroit could not agree on a short-term contract to use the water, and the city, under a state-appointed emergency manager because of financial problems, did not want to pay the cost of Detroit water.

In a press conference on Wednesday, Mr. Snyder acknowledged that in making the switch, not all factors were probably considered.

The request for the EPA to order both the city and state to make the switch to Detroit water came with a variety of city and state groups, including the Concerned Pastors for Social Action, the Flint Water Study

Team, the Michigan Nurses Association, the NAACP-Michigan State Conference, the Natural Resources Defense Council and the Michigan branch of the American Civil Liberties Union, getting involved.

The request charged that neither the state nor Flint were doing enough to fix the problem and urged that both be ordered to immediately have Flint's water system reconnected with the Detroit system, and that city residents be provided with a free source of water that meets EPA standards.

Mr. Phelps, meanwhile, complained that the Department of Environmental Quality denied and the Department of Treasury ignored a Freedom of Information Act request for documents related to the city's switch from Detroit water to river water. Anytime there is a change in water systems of the course of water, the community has to apply to the state for that authority.

But Brad Wurfel, with the DEQ, said Flint did not have to file that application because the city had always listed the Flint River as its back-up should it need it for a water supply.

However, there are other documents that are available - to Mr. Phelps or anyone - dealing with the process the city and state took preparing for the switch, Mr. Wurfel said.

Mr. Phelps said a DEQ official contacted him and said there were documents available and that they would be sent to him. The official asked that he drop his FOIA request, Mr. Phelps said.

On the advice of his lawyers, Mr. Phelps said he did not drop the request. But he had also asked the department for any documents that might have to do with the switch. After his request was denied, he received several documents dealing with the system, but the documents were from 2007 and did not have to do with the switch.

Mr. Phelps was surprised by the refusal and was planning what steps to next take.

In terms of what the state should do to help in the situation, Senate **Minority Leader Jim Ananich** (D-Flint) told reporters after session on Thursday that he thought the state should first help with distributing filters to residents, especially those who may be most vulnerable, listing pregnant women, children, women that are nursing, those with immune system issues and the elderly among them.

"That should be done immediately," Mr. Ananich said. "I think we need to have corrosion control put in place as quickly as possible. Unfortunately, I think we need some independent, outside testers to come in and develop the confidence level that's just not there with traditional people in place. And I think we need to have a serious look at reconnecting with Detroit. I think the state needs to help us find a new source of water."

He said he would reserve judgment about how well the state has responded to the situation until after the administration makes its recommendations and remains unsure about any estimates on how much it might cost for Flint to reconnect to Detroit water.

"There's been some negotiations going on at the local level, but I think it's important to get the real cost because it's a public health issue. And I'm hopeful we'll find that. I would hope that all folks, with an issue of this magnitude, would not try to gouge a community that's been suffering the way they are," Mr. Ananich said. "I think we need to all, at the state level, make sure people are negotiating in good faith."

And Senate **Majority Leader Arlan Meekhof** (R-West Olive) said he is unsure what the state's role should be in terms of helping Flint. The Senate did, on Thursday, include a $100 placeholder to deal with Flint's water

crisis in an appropriations supplemental it passed, but that was to keep the conversation going, Mr. Ananich said (see separate story).

"I don't know that we really have a solution there yet," Mr. Meekhof said after session. "We could use revolving funds maybe. I don't think the city of Flint is in as bad of financial trouble as the city of Detroit, so if they need to bond for something, they would have assets with which to bond and maybe fix the problem. There's lots of options that are out there."

Back To Top >>

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Gongwer News Service: The Capitol Record Since 1906
124 West Allegan Street, Suite 1200, Lansing, Michigan, 48933
Phone: 517-482-3500 **Fax:** 517-482-4367 **Email:**gongwer@gongwer.com

EXHIBIT R

B9 (Rev. 04-15)

STATE OF MICHIGAN
DEPARTMENT OF TREASURY
LANSING

RICK SNYDER
GOVERNOR

NICK A. KHOURI
STATE TREASURER

September 29, 2015

Mr. Phil Phelps
819 Main Street
Unit A
Flushing, MI 48433

Dear Mr. Phelps:

This notice is issued in response to your request dated September 4, 2015, which you submitted under the Freedom of Information Act (FOIA), MCL 15.231 *et seq*. Your request was received in the Department of Treasury (Department) by electronic mail on September 8, 2015. As set forth in the Department's September 15, 2015 notice, a statutory extension of time to respond was taken through September 29, 2015.

You have requested records which you describe as: 1) All documents the Michigan Department of Treasury, or its agents, has in its possession, including correspondence, related to any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity; 2) All documents the Michigan Department of Treasury, or its agents, has in its possession, including correspondence, related to any communications between the Michigan Department of Environmental Quality, or its agents, and the Michigan Department of Treasury, or its agents, regarding any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity; 3) All documents the Michigan Department of Treasury has in its possession, including correspondence, related to any communications between the Michigan Department of Treasury, or its agents, and the Office of the Governor of the State of Michigan, or its agents, regarding any waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity.

To the extent we understand your description, your request is denied. After a thorough search of Department records, to the best of the undersigned's knowledge, information and belief, no such records as you describe, or by any other name reasonably known to the Department, regarding any "waivers, permits or applications to use the Flint River as a source for water and/or drinking water for the City of Flint or any other municipality or municipal entity," exist in the Department of Treasury.

Opt-Out:

In an effort to be cooperative, you may wish to contact the Department of Environmental Quality as they may have records responsive to your request.

As to the denial of your FOIA request, the Department is obligated to inform you that under section 10 of the FOIA, MCL 15.240 you may do the following:

1. Appeal this decision in writing to the State Treasurer, Michigan Department of Treasury, P.O. Box 30716, Lansing, MI 48909. The writing must specifically state the word "appeal" and must identify the reason or reasons you believe the denial should be reversed. The Department must respond to your appeal within 10 days of its receipt. Under unusual circumstances, the time for response to an appeal may be extended by 10 business days.

2. File an action in the appropriate court within 180 days after the date of the final determination to deny the request. If you prevail in such an action, the court is to award reasonable attorney fees, costs, and disbursements, and possible damages.

Pursuant to section 4 of the FOIA, MCL 15.234, the Department's FOIA procedures, guidelines and written summary can be found on the Department's website at the following link: http://michigan.gov/treasury/0,4679,7-121-72699-357926--,00.html.

Sincerely,

Carla M. Robert

Carla M. Robert
FOIA Coordinator

From: Wurfel, Sara (GOV)
Sent: Monday, October 12, 2015 5:48 PM
To: 'Gary Ridley'
Subject: RE: Comment sought on Rep. Phelps Files Suit Against State of Michigan, City of Flint

Gary –

I believe the DEQ team can best address this one. Have you already reached out to them? Please let me know and I'll follow up accordingly.

Being transparent and fulfilling FOIA requests is something our administration take very seriously.

From: Gary Ridley [mailto:GRIDLEY@mlive.com]
Sent: Monday, October 12, 2015 3:39 PM
To: Bitely, Andrea (AG) <BitelyA@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Comment sought on Rep. Phelps Files Suit Against State of Michigan, City of Flint

Hi,
I wanted to see if the state had any comment in response to this lawsuit.

Thanks.

--
Gary Ridley | The Flint Journal-MLive Media Group | 810-280-9516 | gridley@mlive.com

---

From: Rosemary Jones [mailto:RJones@house.mi.gov]
Sent: Monday, October 12, 2015 1:33 PM
To: Rosemary Jones
Subject: Rep. Phelps Files Suit Against State of Michigan, City of Flint

FOR IMMEDIATE RELEASE
Monday, Oct. 12, 2015

Contact: Rep. Phil Phelps
Phone: (517) 373-7515

Rep. Phelps Files Suit Against State of Michigan, City of Flint

State, city failed to release documents sought in FOIA request

LANSING — State Representative **Phil Phelps** (D-Flushing) announced earlier today that he is filing suit against the state of Michigan and the city of Flint to force them to release public documents he requested last month under the Freedom of Information Act (FOIA).

"It's an absolute shame that I have to file suit to force our government to comply with the law," Phelps said. "I was shocked at their response, because prior to receiving the denials, officials from both the city and state had told me that not only did documents exist, but they would be happy to share them with me."

On Sept. 4 of this year, Phelps requested that the city and state turn over all documents and emails regarding the permit and application process that Flint's emergency manager was required to complete before the Michigan Department of Environmental Quality gave the go ahead to the city to start using the Flint River as its source of drinking water. Late last month, the state and the city both denied Phelps' request, saying that no such documents exist.

In March and April of 2014, officials from both the city and state were also quoted in several articles on Mlive.com, making comments about the permit application process for Flint to switch its source of drinking water from Detroit's system to the Flint River.

"I want to know what these officials knew about the safety and quality of the river water before the switch was made. Judging by their response and recent actions, it almost seems they knew a lot more than they are letting on to," Phelps said. "Flint residents deserve better than this, they deserve to know the truth about the decisions that were made, and if I have to fight this in court to get the truth, so be it."

###

Rosie Jones
Deputy Press Secretary
Michigan House Democrats
O: 517.373.3731
C: PPI
housedems.com

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 13, 2015 8:52 AM
To: Murray, David (GOV)
Subject: Last agenda
Attachments: Agenda Communications Update 10-6-15.docx

Communications Update Meeting
Oct. 6 2015

- Flint water

Not Responsive

Upcoming events

Not Responsive

Look ahead:

Not Responsive

Interviews/requests

Not Responsive

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 13, 2015 12:56 PM
To: 'Ronald Fonger'
Subject: RE: MDP Statement: Those Responsible for Flint Water Crisis Must Be Held Accountable
Attachments: DWSD Termination Letter.pdf

My comments are several fold, Ron. This switch to KWA as well as using the community's long-time back-up water supply (Flint River) was pushed or supported by the city and community and that DWSD was terminating Flint from its system (see attached letter again just in case) necessitating another source. We also know Darnell cares deeply about the kids and communities he serves. We're focused on solving this challenging infrastructure issue, moving forward quickly and doing everything we can to ensure that Flint has safe drinking water and protecting public health – both in the immediate short-term, mid-term and long-term. We're also going to be conducting a full after action review.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Tuesday, October 13, 2015 10:12 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: FW: MDP Statement: Those Responsible for Flint Water Crisis Must Be Held Accountable

Sara:
Would your office want to comment on this call from state Dems for the governor to fire Darnell Earley from his position with the Detroit schools?
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: MDP Press [mailto:press@michigandems.com]
Sent: Tuesday, October 13, 2015 8:52 AM
To: MDP Press
Subject: MDP Statement: Those Responsible for Flint Water Crisis Must Be Held Accountable

FOR IMMEDIATE RELEASE
News from the Michigan Democratic Party

October 13, 2015
Contact: Paul Kanan, 517.371.5410; pkanan@michigandems.com

MDP Statement: Those Responsible for Flint Water Crisis Must Be Held Accountable

LANSING – The Michigan Democratic Party issued the following statement today, on behalf of Party Chair Brandon Dillon, demanding those responsible for the Flint water crisis be held accountable and calling on Governor Snyder to immediately fire former Flint EM, and current EM for Detroit Public Schools, Darnell Earley:

"Accountability in government means answering to the people you serve, not just cleaning up your mistakes using their money," said Brandon Dillon, Chair of the Michigan Democratic Party.

"This catastrophe began with the governor's appointed emergency manager, and as much as Governor Snyder would like to pretend, this is not a matter of negotiating at the boardroom table. This is a situation where you pay for your mistakes and put those responsible on the chopping block.

"That is why we are calling for the immediate firing of the governor's handpicked emergency manager for Flint, Darnell Earley. Earley was in charge when the decision was made to switch the city to unsafe drinking water. If poisoning children wasn't bad enough, after Earley failed the citizens of Flint, the governor inexplicably rewarded him with another appointment – emergency manager for Detroit Public Schools – where he is now responsible for the education of nearly 50,000 students.

"The children of Flint and Detroit are being robbed of what most of us take for granted – safe drinking water and a quality education. The wholesale theft of our children's futures must end now. That begins with the removal from power all those that would sacrifice the future of a single child in Michigan – let alone thousands – in order to add a few extra dollars to the bottom line."

###

City of Detroit
Water and Sewerage Department
Office of the Director

735 Randolph Street
Detroit, Michigan 48226
www.detroitmi.gov

RECEIVED
CITY COUNCIL
CITY CLERK'S OFFICE
2013 APR 19 AM 11:23

April 17, 2013

Via Certified Mail and Electronic Delivery

Ms. Inez M. Brown
City Clerk
City of Flint
2nd Floor, City Hall
1101 S. Saginaw Street
Flint, Michigan 48502

Dear Ms. Brown:

Regarding: Termination of Contract for the Provision of Water Services by the City of Detroit, Water and Sewerage Department

On December 20, 1965, the City of Detroit, through its Board of Water Commissioners, (DWSD) and the City of Flint, Michigan (Flint) entered into a contract for the provision of DWSD treated water to Flint and the distribution by flint of that water to other Genesee County communities. Section 18 of that Agreement[1] provides:

18. The Board [DWSD] shall supply and sell water to the City [Flint] from the water system of the City of Detroit, and the City shall receive and purchase such water in accordance with the terms of this Agreement for an indefinite period of time but at least for a period of thirty-five (35) years from the date hereof. This Agreement may be terminated by either party after expiration of said 35-year period, upon one year's written notice served upon the other party by delivering the same to the Secretary of the Board or to the Clerk of the City as the case may be, or at any time upon mutual consent of both parties.

Please take notice that pursuant to this section, 18, of the above-referenced Agreement, DWSD is terminating this Agreement one year from today's date (April 17, 2014).

Sincerely yours,

Sue F. McCormick
Director

[1] Although the Agreement between DWSD has been subsequently amended, Section 18 remains unchanged and in full effect.

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 13, 2015 1:04 PM
To: 'Kyle Melinn'
Subject: RE: MDP Statement: Those Responsible for Flint Water Crisis Must Be Held Accountable
Attachments: DWSD Termination Letter.pdf

Reaction is several fold, Kyle. This switch to KWA as well as using the community's long-time back-up water supply (Flint River) was pushed or supported by the city and community and that DWSD was terminating Flint from its system (see attached letter again just in case) necessitating another source. We also know Darnell cares deeply about the kids and communities he serves. That said, we're focused on helping solve this challenging infrastructure issue, moving forward quickly and doing everything we can to ensure that Flint has safe drinking water and public health is protected -- both in the immediate short-term, mid-term and long-term. We're also going to be conducting a full after action review.

From: Kyle Melinn [mailto:melinnky@gmail.com]
Sent: Tuesday, October 13, 2015 11:11 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Fwd: MDP Statement: Those Responsible for Flint Water Crisis Must Be Held Accountable

Good morning, Sara. Have you seen this, yet. What to let you react to it if you like. Take care.

Kyle

---------- Forwarded message ----------
From: **MDP Press** <press@michigandems.com>
Date: Tue, Oct 13, 2015 at 8:52 AM
Subject: MDP Statement: Those Responsible for Flint Water Crisis Must Be Held Accountable
To: MDP Press <press@michigandems.com>

FOR IMMEDIATE RELEASE
News from the Michigan Democratic Party

October 13, 2015
Contact: Paul Kanan, 517.371.5410; pkanan@michigandems.com

MDP Statement: Those Responsible for Flint Water Crisis Must Be Held Accountable

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“This catastrophe began with the governor’s appointed emergency manager, and as much as Governor Snyder would like to pretend, this is not a matter of negotiating at the boardroom table. This is a situation where you pay for your mistakes and put those responsible on the chopping block.

“That is why we are calling for the immediate firing of the governor’s handpicked emergency manager for Flint, Darnell Earley. Earley was in charge when the decision was made to switch the city to unsafe drinking water. If poisoning children wasn’t bad enough, after Earley failed the citizens of Flint, the governor inexplicably rewarded him with another appointment – emergency manager for Detroit Public Schools – where he is now responsible for the education of nearly 50,000 students.

“The children of Flint and Detroit are being robbed of what most of us take for granted – safe drinking water and a quality education. The wholesale theft of our children’s futures must end now. That begins with the removal from power all those that would sacrifice the future of a single child in Michigan – let alone thousands – in order to add a few extra dollars to the bottom line.”

###

City of Detroit
Water and Sewerage Department
Office of the Director

735 Randolph Street
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www.detroitmi.gov

RECEIVED
CITY COUNCIL
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2013 APR 19 AM 11:23

April 17, 2013

Via Certified Mail and Electronic Delivery

Ms. Inez M. Brown
City Clerk
City of Flint
2nd Floor, City Hall
1101 S. Saginaw Street
Flint, Michigan 48502

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Regarding: Termination of Contract for the Provision of Water Services by the City of Detroit, Water and Sewerage Department

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18. The Board [DWSD] shall supply and sell water to the City [Flint] from the water system of the City of Detroit, and the City shall receive and purchase such water in accordance with the terms of this Agreement for an indefinite period of time but at least for a period of thirty-five (35) years from the date hereof. This Agreement may be terminated by either party after expiration of said 35-year period, upon one year's written notice served upon the other party by delivering the same to the Secretary of the Board or to the Clerk of the City as the case may be, or at any time upon mutual consent of both parties.

Please take notice that pursuant to this section, 18, of the above-referenced Agreement, DWSD is terminating this Agreement one year from today's date (April 17, 2014).

Sincerely yours,

Sue F. McCormick
Director

[1] Although the Agreement between DWSD has been subsequently amended, Section 18 remains unchanged and in full effect.

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 13, 2015 1:56 PM
To: Stanton, Terry A. (Treasury)
Subject: RE: Flint

Not Responsive

From: Stanton, Terry A. (Treasury)
Sent: Tuesday, October 13, 2015 1:40 PM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>
Cc: Heaton, Anna (GOV) <HeatonA@michigan.gov>; Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>
Subject: Flint
Importance: High

Not Responsive

Flint EM dates (financial emergency declared in December 2011)

Mike Brown, apptd 12-1-11 (when fin emer declared under PA 4 of 2011)
Ed Kurtz, apptd 8-8-12 (when PA4 was repealed in Aug 2012, Brown couldn't serve as EM, PA 72 back in effect)
Mike Brown, apptd 7-4-13 (Kurtz retired; PA436 in effect)
Darnell Earley, apptd 10-8-13 (Brown resigned)
Gerald Ambrose, apptd 1-13-15 (Earley appointed DPS EM)

Financial Emergency resolved, 4-29-15 (RTAB apptd)

Other dates

June 26, 2012 – Letter from EM Brown to DWSD seeking permission to blend river water with DWSD water (attached).

Sept. 20, 2012 – Letter from EM Kurtz to DWSD requesting written permission to implement blending (attached).

March 25, 2013 – The Flint City Council endorses joining KWA (see url below)
http://blog.mlive.com/newsnow_impact/print.html?entry=/2013/03/flint_city_council_approves_re.html

April 11, 2013 – Treasurer Dillion sends letter to EM Kurtz (attached) noting conditional approval of move to KWA (pursuant to PA436), pending a review of DWSD's last, best offer.

April 16, 2013 – EM Kurtz informs Treasury that the City will join KWA (attached).

April 17, 2013 – DWSD transmits letter to EM Kurtz terminating service to Flint, effective April 17, 2014 (attached).

April 17, 2014 – Water service from DWSD officially ends.

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 13, 2015 3:09 PM
To: Saxton, Thomas (Treasury)
Subject: RE: Flint Water Issue: Memorandum RTAB1.PDF

Not Responsive

From: Saxton, Thomas (Treasury)
Sent: Tuesday, October 13, 2015 11:51 AM
To: Wyant, Dan (DEQ) <WyantD@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Cc: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Subject: FW: Flint Water Issue: Memorandum RTAB1.PDF
Importance: High

Just fyi... the reconnect to DWSD is hitting the RTAB agenda tomorrow. We are not foreseeing any problems in terms of its approval.

From: Workman, Wayne (TREASURY)
Sent: Tuesday, October 13, 2015 10:44 AM
To: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>
Cc: Stanton, Terry A. (Treasury) <StantonT@michigan.gov>
Subject: FW: Flint Water Issue: Memorandum RTAB1.PDF
Importance: High

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Cline, Richard (Treasury)
Sent: Tuesday, October 13, 2015 10:40 AM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Byrne, Randall (Treasury) <ByrneR1@michigan.gov>; Schafer, Suzanne K. (Treasury) <SchaferS7@michigan.gov>; Koryzno, Edward (Treasury) <KoryznoE@michigan.gov>
Subject: Flint Water Issue: Memorandum RTAB1.PDF
Importance: High

FYI.

I just received this from Natasha regarding the City's request to reconnect to DWSD.

The City is asking that the RTAB consider this tomorrow. I am in the process of sending this to the Board.

It appears that the City is planning on taking the $2M from Fund Balance.

Eric Cline | Department Manager | State of Michigan

Michigan Department of Treasury | Local Government Financial Services Division | Fiscal Responsibility Section
430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
Lansing Office (517) 335-2078 | Cell Phone PPI | Traverse City Office (231) 922-5228
E-mail cliner1@michigan.gov

CONFIDENTIALITY NOTICE: This e-mail, and any attachments, is for the sole use of the intended recipient(s) and may contain information that is confidential and protected from disclosure under the law. Any unauthorized review, use, disclosure, or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail, and delete/destroy all copies of the original message and attachments Thank you.

From: Natasha Henderson [mailto:natashalhenderson@gmail.com]
Sent: Tuesday, October 13, 2015 10:16 AM
To: Dempkowski, Angela (Treasury) <DempkowskiA@michigan.gov>; Cline, Richard (Treasury) <cliner1@michigan.gov>
Subject: Memorandum RTAB1.PDF

Hello Eric,

Per your request, I have attached a request to add two high priority items to the RTAB agenda.

Thanks,

Natasha L. Henderson

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 14, 2015 4:50 PM
To: 'Stanton, Terry A. (Treasury)'; Murray, David (GOV)
Cc: Workman, Wayne (TREASURY); Koryzno, Edward (Treasury)
Subject: RE: Flint RTAB

Thanks much for the update, Terry. One more key step down.

Very surprised by light media turnout.

-----Original Message-----
From: Stanton, Terry A. (Treasury)
Sent: Wednesday, October 14, 2015 3:15 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Cc: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Koryzno, Edward (Treasury) <KoryznoE@michigan.gov>
Subject: Flint RTAB

Only two media outlets (flt journal and weyi TV) at today's meeting.

All went fairly smooth with the RTAB unanimously approving the two resolutions in question (in addition to several others dealing with other financial issues).

Only 2 people made public comment...one of whom was councilman Eric Mays who shared his typical "stuff."

No other real issues etc.

Let me know if you have any questions.

TS

From: Wurfel, Sara (GOV)
Sent: Thursday, October 15, 2015 1:18 PM
To: 'Macaluso, Nora'; Murray, David (GOV)
Subject: RE: flint water

As soon as we can receive it, Nora. Hopefully yet today to help keep the process moving forward as quickly as possible.

Governor appreciates the quick action and unanimous support from the Legislature and everyone working and pulling together on this priority.

From: Macaluso, Nora [mailto:nmacaluso@bna.com]
Sent: Thursday, October 15, 2015 1:04 PM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: flint water

Can you tell me when governor will sign Flint water appropriations bill?
thanks

>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Nora Macaluso
Staff Correspondent

Bloomberg BNA

Direct/Mobile PPI
nmacaluso@bna.com

From: Wurfel, Sara (GOV)
Sent: Friday, October 16, 2015 2:07 PM
To: Murray, David (GOV)
Subject: Re: Please bless our reaction to the US EPA announcement?

Dave will you please make sure sure to share with Jared, Dennis, Rich, and Harvey too?

Sent from my iPhone

On Oct 16, 2015, at 1:02 PM, Murray, David (GOV) <MurrayD1@michigan.gov> wrote:

> Just one little change, a matter of subject and verb agreement:
>
> Regarding the EPA announcement:
> "We are glad to have the continued technical support and counsel from our federal partners. We have been working closely with the U.S. EPA on the challenges in Flint, including **its** added presence on the city's technical advisory and the Governor's 10-point plan. This is welcome news and we anticipate it will help us implement the Governor's strategy."
>
> ---
>
> **From:** Wurfel, Brad (DEQ)
> **Sent:** Friday, October 16, 2015 2:01 PM
> **To:** Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
> **Subject:** Please bless our reaction to the US EPA announcement?
>
> Regarding the EPA announcement:
> "We are glad to have the continued technical support and counsel from our federal partners. We have been working closely with the U.S. EPA on the challenges in Flint, including their added presence on the city's technical advisory and the Governor's 10-point plan. This is welcome news and we anticipate it will help us implement the Governor's strategy."
>
> Brad Wurfel
> Communications Director
> Michigan Department of Environmental Quality
> 517-284-6713
> PPI cell

From: Wurfel, Sara (GOV)
Sent: Monday, October 19, 2015 12:08 PM
To: Snyder, PPI
Cc: Scott, Allison (GOV)
Subject: Fwd: DRAFT DEQ Statement on leadership change And KEY MESSAGES-- Need review ASAP

Per quick convo earlier. Here's more to follow up from Dan's update yesterday.

Thanks much
SW

Sent from my iPhone

Begin forwarded message:

> **From:** "Wyant, Dan (DEQ)" <WyantD@michigan.gov>
> **Date:** October 19, 2015 at 9:07:39 AM EDT
> **To:** "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
> **Cc:** "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>, "Murray, David (GOV)" <MurrayD1@michigan.gov>, "Agen, Jarrod (GOV)" <AgenJ@michigan.gov>, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>, "Tommasulo, Karen (DEQ)" <TommasuloK@michigan.gov>, "Krisztian, George (DEQ)" <krisztiang@michigan.gov>, "Sygo, Jim (DEQ)" <SygoJ@michigan.gov>, "Eisner, Jennifer (DHHS)" <EisnerJ@michigan.gov>
> **Subject: Re: DRAFT DEQ Statement on leadership change And KEY MESSAGES-- Need review ASAP**
>
> I'm good with this.
>
> Sent from my iPhone
>
> On Oct 19, 2015, at 8:35 AM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:
>
> > This is going out to media as soon as I've got green light from folks in the "to" line. Everyone else is also welcome to share thoughts as well.
> > Thanks for fast review.
> > b
> >
> > Brad Wurfel
> > Communications Director
> > Michigan Department of Environmental Quality
> > 517-284-6713
> > PPI cell
> >
> > ***DEQ Director Dan Wyant today made the following statement as he announced DEQ Chief Deputy Jim Sygo will immediately assume the role of interim chief of the department's Office of Drinking Water and Municipal Assistance:***

"It recently has become clear that our drinking water program staff made a mistake while working with the City of Flint. Simply stated, staff employed a federal protocol they believed was appropriate, and it was not. The water testing steps followed would have been correct for a city less than 50,000 people, but not for a city of nearly 100,000.

As details of the situation emerge, I am convinced our program staff believed they were doing their job right. As the state recognized there could be a health threat to Flint residents, we took appropriate steps. We are now embarked on an unprecedented effort to safeguard Flint residents and families with near-term, intermediate and long-term actions to protect and educate city residents.

The issue in DEQ is experience and protocol with respect to corrosion control. The Governor has called for an independent, third-party after-action review. I have taken the step of changing leadership in the division. We are working with our federal partners and committed to being part of the U.S. EPA's effort to strengthen its Lead and Copper rule.

All who brought this issue to the department deserve credit for bringing it forward. Lead is a serious issue, particularly for young people, and we take it seriously. The Governor's plan incorporates the suggestions outlined by the EPA and researchers at Virginia Tech.

We will learn from this. We will make necessary changes to see to it that our program becomes a national leader in public health protection."

KEY MESSAGES:

1. It is increasingly clear through internal review at DEQ that staff overseeing drinking water mistakenly applied the wrong federal protocol when the city of Flint switched to the Flint River.

2. Today's announcement of new leadership in that division aligns with the states goal: make sure the public health is protected in Flint and elsewhere in the state, and ensure we learn from this so it never happens again.

3. The governor's action plan continues to protect kids and families in Flint, with the switch back to Detroit water last week, free water filtration for all city residents, and inspection of all Flint schools for lead exposure.

4. Flint families who are concerned are encouraged to take advantage of free home water testing through the city and blood lead level testing for children.

From: Wurfel, Sara (GOV)
Sent: Monday, October 19, 2015 2:35 PM
To: Wurfel, Brad (DEQ)
Cc: Murray, David (GOV)
Subject: Re: Third-Party review question

Send him our way, pls - we're going to say something like this for now "Pulling together this after action review team and plan is actively underway now. We'll have something to announce and discuss soon."

Sara Wurfel
Press Secretary | Executive Office of Governor Rick Snyder

Sent from my iPhone

On Oct 19, 2015, at 2:32 PM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:

> Where we at with this announcement?
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> **From:** "Wisely, John" <jwisely@freepress.com>
> **Date:** October 19, 2015 at 12:52:49 PM EDT
> **To:** "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
> **Subject: Third-Party review question**
>
> Brad:
>
> The statement from Dan Wyant includes this:
> The Governor has called for an independent, third-party after-action review.
>
> Questions:
> Who/what is the third party?
> Is it the legislature?
> A committee of experts to be appointed?
> Senate Minority leader (from Flint) wants legislative review. Is that something the state is prepared to assist with?
> Please let me know asap.
>
> John Wisely
> Reporter
>
> Phone: 313-222-6825
> jwisely@freepress.com
> Follow me on Twitter: @jwisely

Freep.com

From: Wurfel, Sara (GOV)
Sent: Tuesday, October 20, 2015 12:14 PM
To: 'Jacob Kanclerz'; Murray, David (GOV)
Subject: RE: RELEASE: Progress Michigan: MDEQ's Wyant Needs to Go

Not Responsive

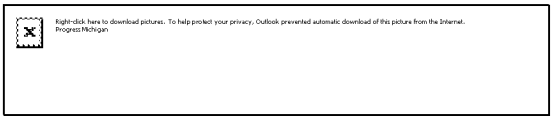
From: Jacob Kanclerz [mailto:jacob@mirsnews.com]
Sent: Tuesday, October 20, 2015 11:59 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Fwd: RELEASE: Progress Michigan: MDEQ's Wyant Needs to Go

Sara and Dave,

Not Responsive

Would you guys mind providing a response to this and also the Dems calling for Wyant to step down yesterday? Gov. Snyder holds the power to make this decision, so I'd like to know if he would consider doing this as the state evaluates how it handled the Flint water situation. Thank you.

---------- Forwarded message ----------
From: **Progress Michigan** <progress@progressmichigan.org>
Date: Tue, Oct 20, 2015 at 10:52 AM
Subject: RELEASE: Progress Michigan: MDEQ's Wyant Needs to Go
To: Jacob Kanclerz <jacob@mirsnews.com>



FOR IMMEDIATE RELEASE
News from Progress Michigan

October 20, 2015

Contact: Sam Inglot, 616-916-0574, sam@progressmichigan.org

Progress Michigan: MDEQ's Wyant Needs to Go

The Flint water crisis shows a lack of leadership at the MDEQ

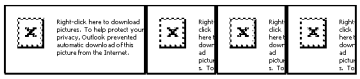
LANSING — In the wake of the Flint water crisis, where children across the city were poisoned with high levels of lead in the drinking water, Progress Michigan is calling for the ouster of the head of the Michigan

Department of Environmental Quality, Dan Wyant.

Recent reports show that Wyant and the MDEQ were warned by the Environmental Protection Agency as early as February that lead was leaching into the water pipes in Flint due to the corrosive nature of the Flint River water. Gov. Rick Snyder's emergency manager made the switch from Detroit water to Flint River water.

"You can't simply reshuffle some staff at the department to make up for poisoning thousands of Flint children. When families and kids are told their drinking water is safe and it's actually filled with toxins, someone needs to be held accountable. It starts at the top with Wyant," **said Lonnie Scott, executive director of Progress Michigan.** "He needs to resign immediately or Gov. Snyder needs to quickly show him the door. This crisis was allowed to fester and grow under his watch and Wyant needs to go. Families in Flint deserve to know that Gov. Snyder is taking this problem seriously and is willing to take serious action."

###



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--
Jacob Kanclerz
Reporter, MIRS News
Office: 517-482-2125
Cell: PPI
Twitter: @jacobkanclerz

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 21, 2015 2:55 PM
To: Ronald Fonger
Subject: Re: governor's task force on flint water

Ron, am on the road with Governor at moment, so do have to respond by email. The task force will operate as transparently as possible and there are certainly expected to be opportunities for public input.

The task force will be independent and our administration has pledged full and complete cooperation.

Sara Wurfel
Press Secretary | Executive Office of Governor Rick Snyder

Sent from my iPhone

On Oct 21, 2015, at 2:45 PM, Ronald Fonger <RFONGER1@mlive.com> wrote:

> Hi Sara:
> I have a few questions on the task force news release.
> Will the task force meet in public? Will it operate under the provisions of the Open Meetings Act?
> Will they have subpoena powers?
> If it's easier to respond via email, that works for me. If it's easier to call, please do.
> Thanks,
>
> **Ron Fonger**
> MLive Media Group
> Reporter
>
> mobile PPI
> email rfonger1@mlive.com
> address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 21, 2015 2:57 PM
To: Jake Neher
Cc: Murray, David (GOV)
Subject: Re: NEWS RELEASE: Gov. Rick Snyder announces Flint Water Task Force to review state, federal and municipal actions, offer recommendations

I'm with governor on a couple of tv interviews at moment, but if hard deadline, am sure Dave can cover if he can swing his schedule.

Also, know the two co-chairs are available and more than happy to talk with you too.

Thanks and best,
SW

Sara Wurfel
Press Secretary | Executive Office of Governor Rick Snyder

Sent from my iPhone

> On Oct 21, 2015, at 2:52 PM, Jake Neher <jaken@mprn.org> wrote:
>
> Is there someone who could talk on tape about this? Hoping to get a
> phone interview in before 3:30, if possible. Thanks.
>
>
> Jake Neher
> State Capitol Reporter
> Michigan Public Radio Network
> jaken@mprn.org
> PPI [cell]
> 819 N. Washington Ave.
> Lansing, Michigan 48906
>>>> "GOV Newsroom" <govnewsroom@govsubscriptions.michigan.gov> 10/21/15
> 2:07 PM >>>
> COMM News Release
>
>
>
> *Contacts*: Sara Wurfel <wurfels@michigan.gov> or Dave Murray
> <murrayd1@michigan.gov>517-335-6397
>
>
>
> *FOR IMMEDIATE RELEASE
> *Wednesday, Oct. 21, 2015
>
>

>
>
>
> *Gov. Rick Snyder announces Flint Water Task Force to review state,
> federal and municipal actions, offer recommendations [
> http://www.michigan.gov/snyder/0,4668,7-277-57577_57657-367761--,00.ht
> ml
>] *
>
> "Experts in public health, water management, environmental protection
> to focus on steps to protect residents"
>
>
>
> LANSING, Mich. – Gov. Rick Snyder today announced the creation of an
> independent advisory task force charged with reviewing actions
> regarding water use and testing in Flint and offer recommendations for
> future guidelines to protect the health and safety of all state residents.
>
>
>
> Task force members include experts in public health and medicine,
> water management, and environmental protection from both sides of the
> aisle, and will be co-chaired by Ken Sikkema of Public Sector
> Consultants and Chris Kolb, of the Michigan Environmental Council.
> Also serving will be Dr. Matthew Davis of the University of Michigan
> Health System, Eric Rothstein, of the Galardi Rothstein Group and Dr.
> Lawrence Reynolds of Mott Children's Health Center in Flint.
>
>
>
> "Transitioning back to the Detroit Water and Sewerage Department-Great
> Lakes Water Authority is a good first step to protecting public health
> in Flint, but it's not the last step," Snyder said. "Bringing in
> outside experts to evaluate our actions and help monitor and advise on
> potential changes to law, procedures and practices will be key to
> continuing work on the comprehensive action plan and ensuring safe
> drinking water for all the residents in Flint and all of Michigan."
>
>
>
> Snyder said the administration will fully cooperate with task force
> members, saying he wants an unbiased report focusing on steps taken in
> the past and recommendations that could improve practices to ensure
> all residents have access to safe, clean water.
>
>
>
> *Ken Sikkema* is a senior policy fellow at Public Sector Consultants,
> where he specializes in public finance, environment, and energy policy.
> Prior to joining the firm, Sikkema served in both the Michigan House
> and Senate, culminating with four years as Senate majority leader. He

> has also served as both an adjunct and visiting professor at Grand
> Valley State University.
>
>
>
> *Chris Kolb* is president of the Michigan Environmental Council, a
> statewide coalition of 70 environmental, public health and faith-based
> nonprofit groups. Before joining the MEC, Kolb represented Ann Arbor
> in the state House for six years and served six years on the Ann Arbor
> City Council. He has been president of the MEC for six years.
>
>
>
> *Matthew Davis*, M.D., M.A.P.P., is professor of pediatrics and
> internal medicine at the University of Michigan Health System and
> professor of public policy at the Gerald R. Ford School at the
> University of Michigan, having joined the faculty in 2000. Davis also
> is a professor of health management and policy at the School of Public
> Health. He previously served as the chief medical executive of the
> Michigan Department of Community Health/Department of Health and Human Services.
>
>
>
> *Eric Rothstein* is a national water issues consultant and principal
> at the Galardi Rothstein Group. He served as an independent advisor on
> the creation of the Great Lakes Water Authority. Rothstein also has
> served as Jefferson County, Alabama's rate consultant and municipal
> adviser for litigation related to the county's bankruptcy and issuance
> of $1.7 billion in sewer warrants and led strategic financial
> planning30 years of experience in water, wastewater and stormwater utility finance and rate-making assessments.
>
>
>
> *Lawrence Reynolds,* M.D., is a pediatrician in Flint who serves as
> president of the Mott Children's Health Center. He received his
> medical degree from Howard University College of Medicine and has been
> in practice for 36 years. He has served as president of the Genesee
> County Medical Society and the Michigan Chapter of the American
> Academy of Pediatrics. He has been honored for his humanitarian and
> advocacy efforts on behalf of children from the Community Foundation
> of Greater Flint.
>
>
>
> Snyder has said reconnecting with the authority is a critical step to
> resolving water quality issues and addressing related health concerns.
> It will not immediately resolve the city's problem with lead service
> lines or aging infrastructure. It will take time for pipes in Flint to
> become coated with the phosphate corrosion control.
>
>
>

> To best protect public health, state and local authorities will
> continue to carry out steps outlined on Oct. 2 in a comprehensive
> action plan, including continued testing, the use of faucet filters
> and providing residents with accurate information about steps to
> eliminate lead exposure. The Michigan Departments of Environmental
> Quality and Health and Human Services are continuing to provide free
> water filters, free lead testing through the state laboratory for
> Flint water customers, and hiring additional staff to conduct health
> exposure monitoring for lead in drinking water.
>
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> ####
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>
> STAY CONNECTED: Visit us on Facebook [
> http://www.facebook.com/GovernorRickSnyder] Visit us on Twitter [
> http://twitter.com/onetoughnerd] Visit us on YouTube [
> http://www.youtube.com/govsnyder] Sign up for email updates [
> https://public.govdelivery.com/accounts/MIGOV/subscriber/new]
>
>
>
> _____
> __
>
> This email was sent to jaken@mprn.org on behalf of: The Executive
> Office of the Governor · 111 South Capitol Avenue · Lansing, MI 48909
> ·
> 517-335-7858
>
>

From: Wurfel, Sara (GOV)
Sent: Thursday, October 22, 2015 9:35 AM
To: Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury)
Cc: Roberts, John (DTMB); Weiss, Kurt (DTMB)
Subject: FW: state money for detroit water

Please see below. Calling to touch base shortly.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Thursday, October 22, 2015 9:28 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: state money for detroit water

Sara:
I was at a City Council meeting last night when Flint City Administrator Natasha Henderson said the state has only wired Flint $2 million of the $6 million approved by the state Legislature.
She said the city has been told it will receive an additional $2 million in January and another $2 million in April.
Henderson said she's asked that the money be sent immediately because the city was required to pay Detroit the entire $12 million upfront, before the water was reconnected, and its water and sewer fund balance has dropped significantly as a result.
Several council members also spoke about this, and Council President Josh Freeman called the payment plant "beyond ridiculous" given the city's financial position.
Is there someone who can talk to us about this?
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Thursday, October 22, 2015 9:55 AM
To: Muchmore, Dennis (GOV)
Subject: RE: state money for detroit water

Not Responsive

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 22, 2015 9:47 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: state money for detroit water

Not Responsive

From: Wurfel, Sara (GOV)
Sent: Thursday, October 22, 2015 9:35 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: FW: state money for detroit water
Importance: High

Please see below.

Not Responsive

I thought GLWA-DWSD was NOT going to require the entire sum all up front?

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Thursday, October 22, 2015 9:28 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: state money for detroit water

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Is there someone who can talk to us about this?
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Thursday, October 22, 2015 10:00 AM
To: 'Ronald Fonger'
Subject: RE: state money for detroit water

Ron – for your background only right now, this doesn't match my understanding of how this was supposed to work and happen. Checking into now and will get back to you asap.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Thursday, October 22, 2015 9:38 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: state money for detroit water

Sara:
I was at a City Council meeting last night when Flint City Administrator Natasha Henderson said the state has only wired Flint $2 million of the $6 million approved by the state Legislature.
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Is there someone who can talk to us about this?
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Thursday, October 22, 2015 12:18 PM
To: 'Ronald Fonger'
Subject: RE: state money for detroit water

We're close to having details tracked down. Hoping you can hold off another ½ hour or so. Should have ironed out by then.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Thursday, October 22, 2015 11:56 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: state money for detroit water

Hi Sara. Any ETA? I need to write something pretty soon but definitely prefer to include your perspective on this.

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Thursday, October 22, 2015 10:00 AM
To: Ronald Fonger
Subject: RE: state money for detroit water

Ron – for your background only right now, this doesn't match my understanding of how this was supposed to work and happen. Checking into now and will get back to you asap.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Thursday, October 22, 2015 9:38 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: state money for detroit water

Sara:
I was at a City Council meeting last night when Flint City Administrator Natasha Henderson said the state has only wired Flint $2 million of the $6 million approved by the state Legislature.
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Is there someone who can talk to us about this?
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Thursday, October 22, 2015 12:33 PM
To: 'Agen, Jarrod (GOV)'; Baird, Richard (GOV); Muchmore, Dennis (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV)
Cc: Murray, David (GOV)
Subject: RE: state money for detroit water

That's a great point and change.

From: Agen, Jarrod (GOV)
Sent: Thursday, October 22, 2015 12:30 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: state money for detroit water

Overall it works for me.
Although, just add some urgency/compassion.

- We want to ensure that there are no complications or interruptions in Flint residents receiving water from GWLA, so we are taking steps immediately wire the money to the city. They should have all of the state funds within a business day or two.

From: Wurfel, Sara (GOV)
Sent: Thursday, October 22, 2015 12:16 PM
To: Baird, Richard (GOV) <bairdr@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: state money for detroit water
Importance: High

So sounds like based on conf call that was just had, that for some reason the city did indeed agree to all up front.

Clearly don't want to throw city under the bus as that's certainly not going help situation, but since having them do that to us as has already started, please see below bullets. Fact based and shows state's immediate action to again help address. Work? Any concerns or changes?

- The initial agreement and understanding was for monthly payments.
- Unbeknownst to the state, the city entered into an arrangement for one upfront sum and payment.
- Now that we are aware of this and have confirmed that final arrangement, the state is taking steps to immediately wire the money to the city. They should have all of the state funds within a business day or two.

Please weigh in ASAP.

Thanks much,
SW

From: Wurfel, Sara (GOV)
Sent: Thursday, October 22, 2015 9:58 AM
To: Baird, Richard (GOV) <bairdr@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: state money for detroit water

Thanks much -- that was the last I had knew and understood too about how was supposed to work.

Just trying to either correct and nip in bud ASAP before this gets out of hand.

But also imperative that we have facts first.

p.s.
Have also talked with Treasury and SBO teams and they're looking into from their respective ends as well.

From: Baird, Richard (GOV)
Sent: Thursday, October 22, 2015 9:43 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: state money for detroit water

The deal was monthly payments. I will get into this as quick as I can but I am sure she has it wrong or someone in DWSD is befuddled.

From: Wurfel, Sara (GOV)
Sent: Thursday, October 22, 2015 9:35 AM
To: Muchmore, Dennis (GOV); Clement, Elizabeth (GOV); Agen, Jarrod (GOV); Baird, Richard (GOV); Hollins, Harvey (GOV)
Cc: Murray, David (GOV)
Subject: FW: state money for detroit water
Importance: High

Please see below.

Not Responsive

I thought GLWA-DWSD was NOT going to require the entire sum all up front?

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Thursday, October 22, 2015 9:28 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: state money for detroit water

Sara:
I was at a City Council meeting last night when Flint City Administrator Natasha Henderson said the state has only wired Flint $2 million of the $6 million approved by the state Legislature.
She said the city has been told it will receive an additional $2 million in January and another $2 million in April.
Henderson said she's asked that the money be sent immediately because the city was required to pay Detroit the entire $12 million upfront, before the water was reconnected, and its water and sewer fund balance has dropped significantly as a result.
Several council members also spoke about this, and Council President Josh Freeman called the payment plant "beyond ridiculous" given the city's financial position.
Is there someone who can talk to us about this?
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Thursday, October 22, 2015 1:17 PM
To: 'Ronald Fonger'
Subject: RE: state money for detroit water

Ok, Ron, here's our update and response.

Our understanding of the original plan and agreement to re-connect with GLWA-DWSD called for monthly payments from the city. Unbeknownst to the state, the city entered into an arrangement with GLWA-DWSD for one upfront sum and payment.

We want to help ensure that there are absolutely no complications or interruptions in Flint residents receiving water from GWLA-DWSD, so we are taking steps to immediately wire the remaining money to the city now that we are aware of, and have confirmed, this final arrangement. They should have all of the state funds within a business day or two.

Thanks for checking in and flagging this.

Best,
SW

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Thursday, October 22, 2015 12:20 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: state money for detroit water

Yes I'll wait.
Appreciate the update

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Thursday, October 22, 2015 12:18 PM
To: Ronald Fonger
Subject: RE: state money for detroit water

We're close to having details tracked down. Hoping you can hold off another ½ hour or so. Should have ironed out by then.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Thursday, October 22, 2015 11:56 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: state money for detroit water

Hi Sara. Any ETA? I need to write something pretty soon but definitely prefer to include your perspective on this.

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Thursday, October 22, 2015 10:00 AM
To: Ronald Fonger
Subject: RE: state money for detroit water

Ron – for your background only right now, this doesn't match my understanding of how this was supposed to work and happen. Checking into now and will get back to you asap.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Thursday, October 22, 2015 9:38 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: state money for detroit water

Sara:
I was at a City Council meeting last night when Flint City Administrator Natasha Henderson said the state has only wired Flint $2 million of the $6 million approved by the state Legislature.
She said the city has been told it will receive an additional $2 million in January and another $2 million in April.
Henderson said she's asked that the money be sent immediately because the city was required to pay Detroit the entire $12 million upfront, before the water was reconnected, and its water and sewer fund balance has dropped significantly as a result.
Several council members also spoke about this, and Council President Josh Freeman called the payment plant "beyond ridiculous" given the city's financial position.
Is there someone who can talk to us about this?
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 28, 2015 5:43 PM
To: 'Kaffer, Nancy'; Murray, David (GOV)
Subject: RE: Question about the Flint panel

So glad you dropped a note again, Nancy. Have no idea how missed this earlier – apparently a flurry of emails all the same time.

The task force has full independence and our administration has pledged full and complete cooperation. It will operate as transparently as possible and there are expected to be opportunities for public input. The goal and mission is to conduct a thorough independent review of decisions and practices at the state, federal and city level concerning water in Flint.

The task force isn't a public body (it doesn't make policy and doesn't govern anything). They're a group of dedicated professionals who have volunteered to conduct an outside investigation of an issue and report recommendations and findings to the Governor. We fully plan on sharing that.

Thanks and best,
SW

From: Kaffer, Nancy [mailto:nkaffer@freepress.com]
Sent: Wednesday, October 28, 2015 5:26 PM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: FW: Question about the Flint panel

Roping Dave in, here, because Sara, I know you've been dealing with some family business.

Nancy Kaffer
Columnist
Detroit Free Press
www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Kaffer, Nancy
Sent: Tuesday, October 27, 2015 4:16 PM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>
Subject: Question about the Flint panel

So, the panel that's looking at Flint – it reports to the governor, yes? Does that mean its reports/notes/interim work/final product won't be subject to FOIA?

N

Nancy Kaffer
Columnist
Detroit Free Press

www.freep.com/abettermichigan
313-222-6585
@nancykaffer, @abettermi

From: Wurfel, Sara (GOV)
Sent: Wednesday, October 28, 2015 9:23 PM
To: Murray, David (GOV)
Subject: Re: change agent consortium

Good grief. The fact that this even had to be pointed out and requested is so sad, but good for you.

Sent from my iPhone

On Oct 28, 2015, at 8:46 PM, Murray, David (GOV) <MurrayD1@michigan.gov> wrote:

> **From:** Murray, David (GOV)
> **Sent:** Wednesday, October 28, 2015 8:33 PM
> **To:** 'Ronald Fonger' <RFONGER1@mlive.com>
> **Subject:** RE: change agent consortium
>
> Thanks!
>
> **From:** Ronald Fonger [mailto:RFONGER1@mlive.com]
> **Sent:** Wednesday, October 28, 2015 8:30 PM
> **To:** Murray, David (GOV) <MurrayD1@michigan.gov>
> **Subject:** RE: change agent consortium
>
> Dave: Sorry I've been rushing, covering Congressman Kildee's town hall.
> I see your point, and will update the post to include it in response.
>
> **Ron Fonger**
> MLive Media Group
> Reporter
>
> mobile PPI
> email rfonger1@mlive.com
> address 540 S. Saginaw St. #101, Flint MI 48502
>
> **From:** Murray, David (GOV) [mailto:MurrayD1@michigan.gov]
> **Sent:** Wednesday, October 28, 2015 8:12 PM
> **To:** Ronald Fonger
> **Cc:** Bryn Mickle; Wurfel, Sara (GOV)
> **Subject:** RE: change agent consortium
>
> Bryn and Ron,

Please help. We're confused by the part of my statement that directly addresses the concerns raised by Rev Bulloch was omitted from the story.

Rev. Bulloch says: "There doesn't seem to be a sense of urgency around responsibility and accountability" for Flint's water emergency, Bullock said.

The omitted part of my quote says: "The task force expects to complete its work within three months. It would be premature to take any action until after the task force submits its report."

Leaving this out appears I was dodging the question. I instead addressed it head on. Can you please add that important detail to the story?

Thanks,

Dave

From: Murray, David (GOV)
Sent: Wednesday, October 28, 2015 3:42 PM
To: 'Ronald Fonger' <RFONGER1@mlive.com>
Subject: RE: change agent consortium

We had a good, respectful meeting with a small group from Flint that included pastors, concerned residents and Councilman Mays.

Gov. Snyder has assembled a third-party task force that includes respected experts in public health, water management and environmental protection for an unbiased review of all actions of the city, state and federal governments regarding water use and testing in Flint.

That task force is expected to look at what occurred as well as make recommendations for what should happen moving forward because we believe that Flint residents need clean, safe water. The task force expects to complete its work within three months. It would be premature to take any action until after the task force submits its report.

Meanwhile, the Department of Environmental Quality and the Department of Health and Human Services continue to work with city leaders, educators and residents to continue testing and carrying out other aspects of the governor's action plan.

Dave

rom: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Wednesday, October 28, 2015 3:14 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: change agent consortium

Dave: I just spoke to Rev. Bullock, who said he spoke with you as his group called for the governor to fire Dan Wyant today.

We also have some video from our Lansing hub.
The pastor indicated the group raised questions with you about the task force on Flint water and said he left the conversation feeling, “There doesn’t seem to be a sense of urgency around responsibility and accountability.”
Would you want to comment on the group’s request and/or your conversation with them today.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Thursday, October 29, 2015 10:15 AM
To: Eisner, Jennifer (DHHS); Murray, David (GOV); Brown, Jessica (GOV); Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ)
Cc: Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS)
Subject: RE: Lead Awareness Week PR

Other than it being Thursday and nearly already the end of the week? Afraid that may do more harm than good.

Also, aren't there updates on both water testing and blood lead level results coming out today?

From: Eisner, Jennifer (DHHS)
Sent: Thursday, October 29, 2015 9:41 AM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Tommasulo, Karen (DEQ) <TommasuloK@michigan.gov>
Cc: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>
Subject: Lead Awareness Week PR

Good morning:

Today we will be issuing the lead awareness week press release. Please let me know if there are any last-minute concerns or issues.

Thank you,

Jennifer (Smith) Eisner
Public Information Officer
Michigan Department of Health and Human Services
517-241-2112

All Michigan Families Encouraged to Learn More, Reduce Lead Exposure in Homes

LANSING, Mich. – Nearly half a million children in the United States have elevated blood lead levels that could cause significant damage to their health, estimates the Centers for Disease Control and Prevention, and more than 3,000 Michigan children test positive for lead poisoning each year. Elevated blood lead levels in children is based on 5 micrograms per deciliter or higher.

In response to recent elevated blood lead levels detected in some Flint children, as well as in support of National Lead Poisoning Prevention Week October 25-31, the Michigan Department of Health and Human Services is working to raise awareness and education around childhood lead poisoning prevention across the state.

"Awareness is the best defense against lead poisoning, and unfortunately in Michigan, we know that we still have too many children exposed to lead," said Dr. Eden Wells, Chief Medical Executive with MDHHS. "By making parents and

caregivers aware of exposure hazards and teaching them safe cleaning and remediation practices, we can go a long way toward ensuring that children don't suffer lifelong health impacts from lead poisoning."

Levels in some Flint children increased after a 2014 change in water source. To address this, MDHHS is continuing to offer free NSF-certified water filters to residents and supporting the actions of the Genesee County Health Department. Further, an action plan to test all at-risk children in Flint is being implemented in partnership with local providers, health plans, and community organizations.

Major sources of lead exposure to U.S. children include lead-based paint and lead-contaminated dust in deteriorating buildings. Children can also be exposed to lead from additional sources including contaminated drinking water, take-home exposures from a workplace, and lead in soil.

This year's NLPPW theme, "Lead-Free Kids for a Healthy Future," underscores the importance of testing your home, testing your child, and learning how to prevent lead poisoning's serious health effects. Parents can reduce a child's exposure to lead in many ways, including:

- Get your Home Tested. If you live in a home built prior to 1978 or before you buy an older home, ask for a lead inspection.
- Get your Child Tested. Even if your young children seem healthy, talk to your healthcare provider about testing them for lead.
- Get the Facts. For more information, contact the Michigan Childhood Lead Poisoning Prevention Program at 888-322-4453 or visit www.michigan.gov/lead or www.michigan.gov/leadsafe.

# # #

From: Wurfel, Sara (GOV)
Sent: Friday, November 06, 2015 4:02 PM
To: Nancy Kaffer - Detroit Free Press
Subject: Follow up

Nancy –

Per our earlier conversation, I'd reiterate our heavy focus on ensuring and letting this task force can do their very important job of reviewing all actions related to Flint water. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Thanks,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Sunday, November 08, 2015 3:56 PM
To: Sampson, Jeremy (TREASURY)
Cc: Stanton, Terry A. (Treasury)
Subject: RE: Treasury

Many thanks, Jeremy. Much appreciated.

To be clear then, there WERE other reports and documents since that 2013 date? I thought there had been at least two, but couldn't recall exact timing or access the reports. We'll want to make sure we have handy if so.

Not Responsive

From: Sampson, Jeremy (TREASURY)
Sent: Friday, November 06, 2015 4:47 PM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>
Cc: Stanton, Terry A. (Treasury) <StantonT@michigan.gov>
Subject: Treasury
Importance: High

Sara-

Wanted to update you on a couple of potential stories that you could see over the weekend.

First Nancy Kaffer of the Freep is writing a column for Sunday to do with Flint and the choice of KWA over DWSD. She had FOIA'd a doc from MEDQ that had a 2013 report from Andy Dillion that says that KWA is a risky proposition and that DWSD was a better option. I let her know that the report was just a starting point in the process and as more information became available a joint decision was made by the EM, council and other key city leaders.

Not Responsive

Thanks.

Jeremy Sampson
Communications Specialist
Department of Treasury
Richard H. Austin Building
430 West Allegan Street
Lansing, MI 48922
Office: 517-241-2623
Cell: PPI

sampsonj@michigan.gov

From: Wurfel, Sara (GOV)
Sent: Monday, November 09, 2015 3:47 PM
To: Murray, David (GOV)
Subject: RE: Flint water school testing results - TODAY

Dave – you'll want to make sure governor is aware of this too given today's timing just in case. These are kinds of things we need and want to make sure he and senior staff have a heads up on.

From: Wurfel, Sara (GOV)
Sent: Monday, November 09, 2015 3:47 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>
Cc: Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Wisniewski, Wendy (GOV) <wisniewskiw@michigan.gov>; Scott, Allison (GOV) <scotta12@michigan.gov>
Subject: FW: Flint water school testing results - TODAY
Importance: High

Please see below and attached release per brief convo at senior staff. Sill no exact word on timing of blood lead level data from DHHS – hopefully by late this week.

DEQ also has video that they'll be using for some footage of the testing with TV stations. Link here: https://youtu.be/Amy4cDW7RtA

Freeman Elementary water testing shows lead exposure limited to fixtures

Experts release water testing results on schools and homes in Flint

As part of Gov. Rick Snyder's action plan for Flint drinking water, the DEQ today released water testing data from nearly 400 homes and businesses in Flint as well as comprehensive sampling results from Freeman Elementary School.

Both sets of data indicate the problems with lead are localized to individual buildings or even individual faucets, rather than system-wide issues.

"The results from this data underline the need for water testing at all homes, businesses, schools and other buildings in Flint," said George Krisztian, the DEQ's Flint Action Plan Coordinator. "Problems with lead exposure appear to be localized to individual service lines or plumbing fixtures, and we want to see all families in Flint take advantage of free water testing from the state."

Freeman Elementary testing results
At Freeman Elementary, 31 faucets were tested using a series of four samples each. Twenty-two outlets did not show elevated lead exposure, but nine faucets came back with initially high results.

Those nine outlets involve brass components, indicating the problem involves the fixtures or plumbing immediately surrounding the fixture. When the faucets and fountains were operated for several minutes, lead levels fell significantly, in some cases to non-detectable levels.

Additional testing designed to look deep into the school's plumbing did not suggest larger, systemic issues.

Freeman Elementary has several options for remedying the issues at these nine faucets and fountains. The school can elect not to use those particular fountains, or implement a formalized flushing regimen. The sampling results indicate that for all but one tap, a 3- to 4-minute flushing period each morning would drastically reduce lead exposure.

For a permanent solution, the school should opt to replace the faucets and fountains of concern.

"The safety and health of our students are our primary concern at Flint Community Schools, so we will start work as soon as possible to replace faucets, aerators and other related components where high lead levels were detected," FCS Superintendent Bilal Tawwab said. "Once those fixes have been made, the DEQ has offered to provide additional testing of the water at Freeman Elementary to ensure the water from every sample is safe for our students. Flint Community Schools appreciates the efforts by the DEQ, working with all stakeholders to make sure our water continues to be tested and that our students have access to safe, clean drinking water."

For Freeman Elementary's complete sampling results and more information about how sampling was conducted, visit www.michigan.gov/flintwater.

The DEQ and the DLARA also have conducted sampling at other Flint schools, and results will soon be available on the DEQ's website. Additionally, the state will test every other school in the Flint Community Schools district, as well as any school or daycare in the city. Interested schools and daycare centers should contact George Krisztian at krisztiang@michigan.gov.

Homeowner and other customer-requested testing results
Results from the 381 samples from homes, businesses, schools and other facilities that took advantage of free water testing through the state showed similar, localized results. More than 75 percent of the samples analyzed demonstrated lead results of 5 parts per billion or less, and more than 91 percent demonstrated lead results of 15 parts per billion or less.

This data suggests that while some homes experience elevated lead level results due to lead service lines or in-home plumbing, many other homes experience little to no lead. This can make it difficult for homeowners and businesses to predict their lead exposure.

"Since it's not easy to predict if an individual home's water is at risk for lead, the best thing all residents can do is get their water tested," Krisztian said. "It's a free test that provides valuable information for families."

Testing is available for free by contacting the Flint Water Plant at 810-787-6537 and pressing 1, or by emailing flintwater@cityofflint.com.

For more information about water samples received through the state's free testing program, visit www.michigan.gov/flintwater.

How school sampling was conducted
To conduct this comprehensive sampling, the DEQ and Michigan Department of Licensing and Regulatory Affairs began on Oct. 23 with a thorough plumbing assessment of the school to gain a comprehensive understanding of how water moves through the building and what types of plumbing materials are used. The assessment also identified 31 faucets or fountains in the school that provide water for drinking, cooking and/or food preparation.

On Oct. 24, the DEQ and DLARA took four, 125-milliliter samples from each of the 31 identified faucets and fountains. The first two samples were taken immediately after turning on the faucet, followed by a 30-second flush and then the third sample, followed by a 2-minute flush and then the fourth sample. These samples

provided information on the impact of any lead sources in or around each specific faucet and fountain as well as its connecting plumbing.

On Oct. 31, the DEQ and DLARA took an additional 30 samples, 10 each from three sites in the school. These 1-liter samples were taken consecutively, and provided information about the impact of any lead sources deep in the building's plumbing.

From: Brown, Jessica (GOV)
Sent: Monday, November 09, 2015 2:44 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Cc: Agen, Jarrod (GOV) <AgenJ@michigan.gov>
Subject: FW: Flint water school testing results - 3 PM

Saw Dave was on this but since he's on the road, thought you should definitely see as well. DEQ is planning to issue at 3 p.m.

This is the first I've seen a draft but Dave may have been looped in on the back end. Looks ok and pretty thorough to me. If you need help trying to track any background info down let me know. Happy to reach out.

From: Tommasulo, Karen (DEQ)
Sent: Monday, November 09, 2015 2:31 PM
To: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>; Edgerton, Shelly (LARA) <EdgertonS1@michigan.gov>; Dykema, Linda D. (DHHS) <DykemaL@michigan.gov>; Wells, Eden (DHHS) <WellsE3@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Feuerstein, Heather (DEQ) <FeuersteinH@michigan.gov>
Subject: School testing results

We're planning to put out this press release along with a video and the full results of the school and homeowner testing around 3 today. George Krisztian is taking calls.

Karen Tommasulo
Public Information Officer
Michigan Department of Environmental Quality
517-[PPI] | 517-[PPI]
tommasulok@michigan.gov

From: Wurfel, Sara (GOV)
Sent: Friday, November 13, 2015 7:29 AM
To: Egan, Paul
Subject: Re: Recall

Part of the Democratic process, Paul - we respect that. The governor is going to stay focused on tackling the issues facing our state and Michiganders with relentless positive action and to keep moving Michigan forward. On Flint water, the governor has outlined a detailed multiple step action plan for both immediate, mid and long term, and appointed a task force doing a very important job of reviewing all actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Sent from my iPhone

> On Nov 13, 2015, at 7:02 AM, Egan, Paul <pegan@freepress.com> wrote:

Not Responsive

> Sent from my iPhone

From: Wurfel, Sara (GOV)
Sent: Monday, November 16, 2015 2:03 PM
To: 'Macaluso, Nora'; Murray, David (GOV)
Subject: RE: flint water

Hi there Nora –

Not Responsive

On Flint water, we haven't been served yet so can't comment on specific details. What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Good and all set? Just let us know if anything more needed at all.

Thanks and best,
SW

From: Macaluso, Nora [mailto:nmacaluso@bna.com]
Sent: Monday, November 16, 2015 8:20 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: flint water

I'm writing today on the suit filed in federal court against the governor and state and local officials. Is there any comment? Deadline is 3:30 p.m.

Not Responsive

Thanks …

>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Nora Macaluso
Staff Correspondent

Bloomberg BNA

Direct/Mobile **PPI**
nmacaluso@bna.com

From: Wurfel, Sara (GOV)
Sent: Monday, November 16, 2015 2:14 PM
To: 'Ronald Fonger'
Cc: Murray, David (GOV)
Subject: RE: u.s. district court lawsuit concerning flint water

Hi there Ron --

Sure -- can do now.

We haven't been served yet so can't comment on specific details. What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Just let me know if anything more needed at all.

Thanks and best,
SW

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, November 16, 2015 2:05 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: u.s. district court lawsuit concerning flint water

Sara:

Dave Murray said you would be handling any comment on the lawsuit filed in U.S. District Court Friday.
Do you have an estimated time when you will be available or have a comment?
I'm putting the story together now.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Monday, November 16, 2015 2:15 PM
To: 'Dupnack, Jessica'
Subject: RE: Flint Water Class Action

Greetings, Jessica –

Happy to share comment from our end, which is …

You are correct - we haven't been served yet so can't comment on specific details. What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Just let me know if anything more needed at all.

Thanks and best,
SW

From: Dupnack, Jessica [mailto:jessica.dupnack@abc12.com]
Sent: Monday, November 16, 2015 2:13 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint Water Class Action

Hello Sara. Jessica here with ABC 12 News.
Working on a story today about a class action suit filed against Gov. Snyder and 13 other officials.
I was wondering if there would be any comment from your end? I understand that the defendants have not been served.

Thanks for your help.

From: Wurfel, Sara (GOV)
Sent: Monday, November 16, 2015 2:17 PM
To: 'Dupnack, Jessica'
Subject: RE: Flint Water Class Action

Of course – though heads up that's probably not going to change much, given what would be pending litigation.

From: Dupnack, Jessica [mailto:jessica.dupnack@abc12.com]
Sent: Monday, November 16, 2015 2:17 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: Flint Water Class Action

Thank you! I may ask for comment tomorrow. Once you've (the office) officially been served.

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, November 16, 2015 2:15 PM
To: Dupnack, Jessica
Subject: RE: Flint Water Class Action

Greetings, Jessica –

Happy to share comment from our end, which is …

You are correct - we haven't been served yet so can't comment on specific details. What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

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From: Dupnack, Jessica [mailto:jessica.dupnack@abc12.com]
Sent: Monday, November 16, 2015 2:13 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint Water Class Action

Hello Sara. Jessica here with ABC 12 News.
Working on a story today about a class action suit filed against Gov. Snyder and 13 other officials.
I was wondering if there would be any comment from your end? I understand that the defendants have not been served.

Thanks for your help.

From: Wurfel, Sara (GOV)
Sent: Monday, November 16, 2015 2:18 PM
To: Wurfel, Brad (DEQ); Stanton, Terry A. (Treasury); Sampson, Jeremy (TREASURY); Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS); Eisner, Jennifer (DHHS)
Cc: Murray, David (GOV)
Subject: FW: u.s. district court lawsuit concerning flint water

FYI

From: Wurfel, Sara (GOV)
Sent: Monday, November 16, 2015 2:14 PM
To: 'Ronald Fonger' <RFONGER1@mlive.com>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: u.s. district court lawsuit concerning flint water

Hi there Ron --

Sure -- can do now.

We haven't been served yet so can't comment on specific details. What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Just let me know if anything more needed at all.

Thanks and best,
SW

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, November 16, 2015 2:05 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: u.s. district court lawsuit concerning flint water

Sara:

Dave Murray said you would be handling any comment on the lawsuit filed in U.S. District Court Friday.
Do you have an estimated time when you will be available or have a comment?
I'm putting the story together now.
Thanks,

Ron Fonger
MLive Media Group
Reporter

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address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Monday, November 16, 2015 2:30 PM
To: 'Arthur Delaney'
Subject: RE: Residents of Flint, Michigan, to Sue City, State over Lead in Drinking Water

Importance: High

Greetings, Arthur –

Sorry for the delay. It's been a bit more crazy busy than normal.

On this lawsuit, we haven't been served yet so can't comment on specific details. What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Just let me know if anything more needed at all.

Thanks and best,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397 office
PPI mobile
Twitter:@SaraLW

From: Arthur Delaney [mailto:arthur@huffingtonpost.com]
Sent: Monday, November 16, 2015 9:15 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Fwd: Residents of Flint, Michigan, to Sue City, State over Lead in Drinking Water

Hi, I am filing a short story on this lawsuit -- please let me know if the governor's office would care to comment.

---------- Forwarded message ----------
From: **Margie Kelly** <mkelly@nrdc.org>
Date: Mon, Nov 16, 2015 at 9:00 AM
Subject: Residents of Flint, Michigan, to Sue City, State over Lead in Drinking Water
To: jason.cherkis@huffingtonpost.com

FOR IMMEDIATE RELEASE

Contacts: Margie Kelly, NRDC, mkelly@nrdc.org, 312-651-7935; Darrell Dawsey, ACLU of Michigan, ddawsey@aclumich.org, 313-578-6831

Residents of Flint, Michigan, to Sue City, State over Lead in Drinking Water

Natural Resources Defense Council, ACLU of Michigan Start Legal Process to Stop Ongoing Violations of the Safe Drinking Water Act

CHICAGO (November 16, 2015) – Residents of Flint, Mich., together with the ACLU of Michigan and the Natural Resources Defense Council, today announced their intention to sue state and city officials for ongoing violations of the federal Safe Drinking Water Act amid the city's widespread lead-contamination crisis. A lawsuit would force officials to address repeated, systemic failures to follow federal rules designed to protect the public health from dangerous levels of lead exposure.

"The community of Flint is strong and united in our commitment to repair the harm lead exposure has inflicted on our children and families. We are taking a stand so that our community can heal the damage that has been done and work together so that justice can prevail," said Pastor Allen Overton, a leader of the Concerned Pastors for Social Action.

"This action is about holding the government accountable for failing to protect the public health of an entire community," said Anjali Waikar, an environmental justice staff attorney at the Natural Resources Defense Council. "This case also highlights a troubling trend in which the government is willing to cut costs at the expense of its most vulnerable citizens," Waikar said.

"In their short-sighted effort to save a buck, the leaders who were supposed to be protecting Flint's citizens instead left them exposed to dangerously high levels of lead contamination," said Michael Steinberg, legal director for the ACLU of Michigan. "Not only were the city and state's actions dangerous and misguided. They were illegal, too."

Dangerous amounts of lead leached out of the city's pipes and into the drinking water of Flint's homes and schools for more than a year following a decision by Flint officials to eschew Detroit's water supply in favor of using the Flint River as the City's primary drinking water source. Not long after the switch, residents began to complain about the smell and discoloration of the water and, later, physical ailments stemming from the tainted water.

Officials working on behalf of Flint insisted for several months that the water was safe. However, water tests conducted by experts from Virginia Tech proved those assurances to be wrong, and a study by a local pediatrician that showed that the proportion of Flint kids with elevated blood lead levels had doubled since the City switched water sources. After officials could no longer deny that the community's drinking water was contaminated, Michigan Gov. Rick Snyder finally conceded that Flint should stop using the river water and return to the Detroit water system.

Despite this move, though, city and state officials have continued to violate federal legal requirements for monitoring and sampling tap water for lead, notifying the public about water-testing results and maintaining corrosion control from Flint's lead pipes.

"So much irreparable harm has been done as a direct result of the failures and lack of oversight perpetrated by the City of Flint and Michigan officials who are the very people we relied on to keep us safe. This lawsuit gives me hope that this will stop and no other city will have to endure the physical, property, and emotional damage that Flint residents have," said Melissa Mays of Water You Fighting For, a Flint-based organization.

There is no safe level of lead exposure. The toxic effects of lead on virtually every system in the body, and particularly on the developing brains of young children, are well documented. It can also contribute to high blood pressure and other health problems in adults. Even low levels of lead in the blood have been shown to affect IQ, ability to pay attention, and academic achievement, effects that are irreversible.

The Notice of Intent to Sue was served on behalf of Concerned Pastors for Social Action, an association of religious leaders from Flint; Melissa Mays, a Flint resident; the ACLU of Michigan; and the Natural Resources Defense Council. The groups assert that since April 2014, the City of Flint and Michigan state officials have failed to monitor and control for lead in Flint's drinking water and maintain a program to assist Michigan schools with lead testing and remediation, in violation of the federal Safe Drinking Water Act. If City of Flint and Michigan state officials – including Governor Rick Snyder and Dan Wyant, Director of Michigan Department of Environmental Quality - do not remedy violations under the Safe Drinking Water Act within sixty days, the groups intend to file a lawsuit in federal court.

Flint and state officials have known since 2011 that choosing the Flint River as a drinking water source could result in lead contamination issues, due to its highly corrosive properties. Yet state and city officials insisted that the water was safe to drink - even after testing found dangerously high lead levels in some residents' tap water. Citizen concerns about high lead levels were dismissed by state and city officials as "near hysteri[cal]" and "irresponsible," despite well-established

evidence that there is no safe level of lead exposure, and that even low levels of lead in the blood have been shown to affect IQ, ability to pay attention, and academic achievement, effects that are irreversible.

The Notice of Intent to Sue is required under the Safe Drinking Water Act as a prerequisite to filing suit.

###

For nearly 100 years, the ACLU has been our nation's guardian of liberty, working in courts, legislatures, and communities to defend and preserve the individual rights and liberties that the Constitution and the laws of the United States guarantee everyone in this country. The ACLU of Michigan was officially established in 1959 as part of that mission.

The Natural Resources Defense Council (NRDC) is an international nonprofit environmental organization with more than 2 million members and online activists. Since 1970, our lawyers, scientists, and other environmental specialists have worked to protect the world's natural resources, public health, and the environment. NRDC has offices in New York City, Washington, D.C., Los Angeles, San Francisco, Chicago, Bozeman, MT, and Beijing. Visit us at www.nrdc.org and follow us on Twitter @NRDC.

If you would rather not receive future communications from Natural Resources Defense Council, let us know by clicking here.
Natural Resources Defense Council, 40 West 20th Street 11th Floor, New York, NY 10011 United States

--
Reporter | Huffington Post
(202) 624-9396 desk | PPI cell
Twitter @ArthurDelaneyHP

From: Wurfel, Sara (GOV)
Sent: Monday, November 16, 2015 2:35 PM
To: Chris Klaver - Gongwer
Subject: Flint water lawsuit(s)

Hi there Chris –

Understand you were looking for comment on potential/pending Flint lawsuits.

First, we haven't been served yet so can't comment on specific details.

What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Just let me know if anything more needed at all.

Thanks and best,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Wurfel, Sara (GOV)
Sent: Monday, November 16, 2015 2:35 PM
To: 'Ronald Fonger'
Subject: RE: u.s. district court lawsuit concerning flint water

Yep, both. Thanks, Ron.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, November 16, 2015 2:34 PM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>
Subject: RE: u.s. district court lawsuit concerning flint water

Sara:
Thanks for the response. Does that go for the notice of intent to sue filing (ACLU/NRDC) as well as the U.S. District Court case?

From: Wurfel, Sara (GOV) [mailto:WurfelS@michigan.gov]
Sent: Monday, November 16, 2015 2:14 PM
To: Ronald Fonger <RFONGER1@mlive.com>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: u.s. district court lawsuit concerning flint water

Hi there Ron --

Sure -- can do now.

We haven't been served yet so can't comment on specific details. What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Just let me know if anything more needed at all.

Thanks and best,
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From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, November 16, 2015 2:05 PM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>
Subject: u.s. district court lawsuit concerning flint water

Sara:

Dave Murray said you would be handling any comment on the lawsuit filed in U.S. District Court Friday.

Do you have an estimated time when you will be available or have a comment?
I'm putting the story together now.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Monday, November 16, 2015 3:10 PM
To: 'Ronald Fonger'
Subject: RE: u.s. district court lawsuit concerning flint water

It was really just a transition and not meant for direct attribution but rather the piece about "moving forward ...." – sorry for my shorthand. Either I or we – either context works if you want to use it as direct quote.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, November 16, 2015 2:40 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: RE: u.s. district court lawsuit concerning flint water

In your second sentence ... did you mean what "we" or "I" would say....?
Thanks

From: Wurfel, Sara (GOV) [mailto:Wurfels@michigan.gov]
Sent: Monday, November 16, 2015 2:14 PM
To: Ronald Fonger <RFONGER1@mlive.com>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: u.s. district court lawsuit concerning flint water

Hi there Ron –

Sure – can do now.

We haven't been served yet so can't comment on specific details. What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

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SW

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Monday, November 16, 2015 2:05 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: u.s. district court lawsuit concerning flint water

Sara:

Dave Murray said you would be handling any comment on the lawsuit filed in U.S. District Court Friday.

Do you have an estimated time when you will be available or have a comment?
I'm putting the story together now.
Thanks,

Ron Fonger
MLive Media Group
Reporter

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address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Monday, November 16, 2015 3:41 PM
To: 'Jeremy Berke'; Murray, David (GOV)
Subject: RE: Comment for story regarding Flint water contamination

Greetings, Jeremy –

First, we haven't been served yet so can't comment on specific details.

What would say is that … we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Just let me know if anything more needed at all.

Thanks and best,
SW

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

From: Jeremy Berke [mailto:jberke@businessinsider.com]
Sent: Monday, November 16, 2015 2:54 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Comment for story regarding Flint water contamination

Hello,

I'm a reporter with Business Insider. I'm currently looking into water contamination issues in Flint, as both the NRDC and ACLU released an intent to sue the state and city government over the ongoing lead contamination.

I wanted to give your office a chance to provide any comments you'd like to include with the story.

Best,

Jeremy

--
Jeremy Berke

News Intern, Business Insider
Twitter: @jfberke
(508) 560-3813

From: Wurfel, Sara (GOV)
Sent: Tuesday, November 17, 2015 10:06 AM
To: Mcbride, Bill (GOV); Agen, Jarrod (GOV); Dennis Muchmore; Agen, Jarrod (GOV); Beth Clement; Hollins, Harvey (GOV)
Subject: FW: request for comment on congressman's letter
Attachments: 111315 Update and Health Fund Request (Snyder).pdf

Please see below. Know we talked about this yesterday briefly at senior staff. What is status of response? Otherwise, will stick to basics and focus on moving forward piece, along with seeing if any specific updates from DEQ.

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Tuesday, November 17, 2015 9:53 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: request for comment on congressman's letter

Hi Sara:
I've attached a copy of a letter Congressman Kildee sent to Gov. Snyder last week concerning Flint water issues.
I didn't know if there has been a formal reply and/or if you would want to comment on it.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
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address 540 S. Saginaw St. #101, Flint MI 48502

DANIEL T. KILDEE
5TH DISTRICT, MICHIGAN

COMMITTEE ON
FINANCIAL SERVICES

SUBCOMMITTEE ON
HOUSING AND INSURANCE

SUBCOMMITTEE ON
MONETARY POLICY AND TRADE

SENIOR WHIP

DEMOCRATIC POLICY AND
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Congress of the United States
House of Representatives
Washington, DC 20515

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(202) 225-6393 (FAX)

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(810) 238-8627
(810) 238-8658 (FAX)

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/REPDANKILDEE
@REPDANKILDEE

November 13, 2015

Governor Rick Snyder
Executive Office of the Governor
P.O. Box 30013
Lansing, Michigan 48909

Governor Snyder:

I would like to provide you an update with some of the work we are doing in response to your letter on October 2, 2015 letter. I also have three requests of the state that are necessary to provide relief to the victims of the Flint water crisis.

First, Senator Stabenow, Senator Peters and I wrote a letter to the U.S. Environmental Protection Agency (EPA) asking for clarification on whether federal law permits states to use Safe Drinking Water State Revolving Funds (Revolving Funds) to finance the replacement of privately owned lead water service lines (attached). The EPA responded that the Revolving Funds can in fact be used for this purpose. My office immediately notified both your office and the Michigan Department of Environmental Quality of this fact.

Secondly, the three of us also wrote to Secretary Tom Vilsack requesting that the U.S. Department of Agriculture (USDA) provide greater clarification on the availability of "Ready to Feed" formula for recipients of Special Supplemental Nutrition Program for Women, Infants and Children (WIC) in Flint. Additionally, the letter asks to identify resources to improve the nutrition of Flint residents specifically as it relates to lead, because a certain diet can reduce some of the impact of exposure. The USDA is currently reviewing the letter.

Third, I have been working with the EPA on important revisions to the Lead and Copper Rule that would prevent a public health crisis like the one in Flint from happening again in other communities. I will be providing testimony at a meeting of the National Drinking Water Advisory Council next Wednesday, November 18 on what we have learned firsthand in Flint and the necessary improvements to the Lead and Copper Rule.

I will continue to pursue all of these avenues in order to find assistance for the people of Flint. There are, however, additional steps that need to be taken to remediate the damage done to the people of Flint due to the failures at the state government level, alongside the forgiveness of Flint's Revolving Funds loan debt if that becomes available. I urge state and local partners to work in coordination to fulfill the following requests.

- First, I request that the state of Michigan use its Revolving Funds and other state resources such as the rainy day and general funds to repair the damage done to Flint's water distribution system.

Due to the corrosive nature of the water, conservative estimates show there has been hundreds of millions of dollars of damage done to Flint's water distribution system. The damage to the system will increase maintenance costs resulting in higher rates for Flint water users, who already are burdened by the highest water rates in the state. Furthermore, the presence of over 15,000 lead service lines continues to threaten the quality of the water and creates the potential for future lead exposure through drinking water. As stated previously, the EPA has said that using the Revolving Funds for this purpose is allowed under federal law, and I request the state do so.

- Second, I request the state create a fund for ongoing assistance to the people of Flint to respond to the impacts of lead exposure.

The effects of lead are serious and permanent, with especially harmful impacts on young children and those with weakened immune systems. In discussions with health professionals, they have expressed the need for significant investments in the local health system in order to respond to the widespread exposure of lead to the people of Flint, including monitoring of future lead exposure. This fund should include support for, at a minimum, continuous health monitoring, early education programs, nutrition education, support services for children to succeed in school, and continued exposure prevention efforts. The investments we make now to combat the negative impacts of lead exposure will pay dividends in avoided costs in the future.

- Finally, I again ask that the state immediately reverse course and rescind Flint's obligation to provide $2 million for the cost of connecting to the Detroit water system and refund any money the city of Flint has had to pay.

Requiring a financially distressed city and its people to pay for the state's failures is an abdication of clear responsibility by the state. The state-appointed emergency manager was in charge of the city of Flint during the time that the decision to leave the Detroit system was made. The state – not Flint – created this water crisis, and the state needs to pay to fix it. The $2 million Flint spent to reconnect to the Detroit water system could be used for many other essential services in Flint, such as hiring policemen and firefighters, improving schools and maintaining parks.

In addition to state investments, I encourage the state to request assistance from federal agencies. They have extensive experience working with health, education and nutrition systems nationwide and could provide critical resources to state officials. Specifically, the Centers for Disease Control and Prevention has offered resources if the state requests it. I will work to support any efforts for federal assistance the state makes.

I look forward to working with the state and federal governments to not only provide clean drinking water to the people of Flint immediately, but also repair the damage done to the city's water system and give local health professionals the resources they need to combat the long term impacts of lead exposure.

Sincerely,

Dan Kildee
MEMBER OF CONGRESS

Cc:
Senate Republican Leader Arlen Meekhof
Senate Democratic Leader Jim Ananich
Speaker of the House Kevin Cotter
House Democratic Leader Tim Greimel

From: Wurfel, Sara (GOV)
Sent: Tuesday, November 17, 2015 10:07 AM
To: Wyant, Dan (DEQ); Wurfel, Brad (DEQ)
Subject: FW: request for comment on congressman's letter
Attachments: 111315 Update and Health Fund Request (Snyder).pdf

Calling to touch base on this.

Thanks,
SW

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
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Subject: request for comment on congressman's letter

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I will continue to pursue all of these avenues in order to find assistance for the people of Flint. There are, however, additional steps that need to be taken to remediate the damage done to the people of Flint due to the failures at the state government level, alongside the forgiveness of Flint's Revolving Funds loan debt if that becomes available. I urge state and local partners to work in coordination to fulfill the following requests.

- First, I request that the state of Michigan use its Revolving Funds and other state resources such as the rainy day and general funds to repair the damage done to Flint's water distribution system.

Due to the corrosive nature of the water, conservative estimates show there has been hundreds of millions of dollars of damage done to Flint's water distribution system. The damage to the system will increase maintenance costs resulting in higher rates for Flint water users, who already are burdened by the highest water rates in the state. Furthermore, the presence of over 15,000 lead service lines continues to threaten the quality of the water and creates the potential for future lead exposure through drinking water. As stated previously, the EPA has said that using the Revolving Funds for this purpose is allowed under federal law, and I request the state do so.

- Second, I request the state create a fund for ongoing assistance to the people of Flint to respond to the impacts of lead exposure.

The effects of lead are serious and permanent, with especially harmful impacts on young children and those with weakened immune systems. In discussions with health professionals, they have expressed the need for significant investments in the local health system in order to respond to the widespread exposure of lead to the people of Flint, including monitoring of future lead exposure. This fund should include support for, at a minimum, continuous health monitoring, early education programs, nutrition education, support services for children to succeed in school, and continued exposure prevention efforts. The investments we make now to combat the negative impacts of lead exposure will pay dividends in avoided costs in the future.

- Finally, I again ask that the state immediately reverse course and rescind Flint's obligation to provide $2 million for the cost of connecting to the Detroit water system and refund any money the city of Flint has had to pay.

Requiring a financially distressed city and its people to pay for the state's failures is an abdication of clear responsibility by the state. The state-appointed emergency manager was in charge of the city of Flint during the time that the decision to leave the Detroit system was made. The state – not Flint – created this water crisis, and the state needs to pay to fix it. The $2 million Flint spent to reconnect to the Detroit water system could be used for many other essential services in Flint, such as hiring policemen and firefighters, improving schools and maintaining parks.

In addition to state investments, I encourage the state to request assistance from federal agencies. They have extensive experience working with health, education and nutrition systems nationwide and could provide critical resources to state officials. Specifically, the Centers for Disease Control and Prevention has offered resources if the state requests it. I will work to support any efforts for federal assistance the state makes.

I look forward to working with the state and federal governments to not only provide clean drinking water to the people of Flint immediately, but also repair the damage done to the city's water system and give local health professionals the resources they need to combat the long term impacts of lead exposure.

Sincerely,

Dan Kildee
MEMBER OF CONGRESS

Cc:
Senate Republican Leader Arlen Meekhof
Senate Democratic Leader Jim Ananich
Speaker of the House Kevin Cotter
House Democratic Leader Tim Greimel

From: Wurfel, Sara (GOV)
Sent: Tuesday, November 17, 2015 3:31 PM
To: 'Ronald Fonger'
Subject: RE: request for comment on congressman's letter

Importance: High

Not Responsive

My comment on this is that ...

We look forward to continuing work with Congressman Kildee and other officials and stakeholders at the federal, state and local levels to bring ideas and resources to bear to ensure public health in Flint and clean, safe drinking water. And again, we have the multiple step action plan as well as the task force work underway.

Thanks and best,
SW

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Tuesday, November 17, 2015 9:53 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: request for comment on congressman's letter

Hi Sara:
I've attached a copy of a letter Congressman Kildee sent to Gov. Snyder last week concerning Flint water issues.
I didn't know if there has been a formal reply and/or if you would want to comment on it.
Thanks,

Ron Fonger
MLive Media Group
Reporter
mobile **PPI**
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Tuesday, November 17, 2015 4:51 PM
To: Wurfel, Brad (DEQ); Murray, David (GOV)
Subject: RE: Flint suit comments?

We got it, no worries. Best for us to cover.

From: Wurfel, Brad (DEQ)
Sent: Tuesday, November 17, 2015 4:43 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Fwd: Flint suit comments?

Got this? Want us to weigh in or no?

Sent from my iPhone

Begin forwarded message:

> **From:** Jacob Kanclerz <jacob@mirsnews.com>
> **Date:** November 17, 2015 at 3:53:16 PM EST
> **To:** "Wurfel, Brad (DEQ)" <wurfelb@michigan.gov>
> **Subject: Flint suit comments?**
>
> Brad,
>
> I just sent the Governor's office a request for comment, but did you guys want to say anything regarding the federal class action suit filed against the DEQ and other parties over the Flint water situation? Let me know if you get a chance today. Thanks!
>
> --
> Jacob Kanclerz
> Reporter, MIRS News
> Office: 517-482-2125
> Cell: PPI
> Twitter: @jacobkanclerz

From: Wurfel, Sara (GOV)
Sent: Tuesday, November 17, 2015 5:01 PM
To: Wurfel, Brad (DEQ); Murray, David (GOV)
Subject: RE: request for comment on congressman's letter

Here's how am responding to Ron, FYI.

We look forward to continuing work with Congressman Kildee and other officials and stakeholders at the federal, state and local levels to bring ideas and resources to bear to ensure public health in Flint and clean, safe drinking water. And again, we have the multiple step action plan as well as the task force work underway.

From: Wurfel, Brad (DEQ)
Sent: Tuesday, November 17, 2015 12:55 PM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: RE: request for comment on congressman's letter

1. The Governor's 10-point plan for Flint recognizes the need to address lead service lines. We agree with Congressman Kildee and intend to work with the City of Flint, utilizing MI's Revolving Loan Fund program. We appreciate Congressman Kildee getting clarification from EPA that this money can be used for lead service line replacement. In fact, we've been working with Sen. Ananich and other legislative leaders to get these funds available to perform lead service line replacement.

2. The Governor's action plan addresses lead education and lead exposure. We will continue working with the city to educate its citizens and we will be making our lead exposure data available and take actions necessary to minimize risk to Flint residents from lead.

3. We appreciate the partnership between the state and local government to address the switchover to Detroit water. The State of Michigan, with support from the Legislature, provided $6 million in an agreed-upon plan with the City to contribute half of the necessary funding. Of the $6 million local half, it is important to remember the Mott Foundation provided $4 million. We want to recognize and sustain the partnership.

4. We look forward to the congressman's continued leadership to deliver federal resources to this issue.

From: Wurfel, Sara (GOV)
Sent: Tuesday, November 17, 2015 10:07 AM
To: Wyant, Dan (DEQ); Wurfel, Brad (DEQ)
Subject: FW: request for comment on congressman's letter

Calling to touch base on this.

Thanks,

SW

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Tuesday, November 17, 2015 9:53 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: request for comment on congressman's letter

Hi Sara:
I've attached a copy of a letter Congressman Kildee sent to Gov. Snyder last week concerning Flint water issues.
I didn't know if there has been a formal reply and/or if you would want to comment on it.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Sara (GOV)
Sent: Tuesday, November 17, 2015 5:56 PM
To: 'Jacob Kanclerz'; Murray, David (GOV)
Subject: RE: Flint suit comments

Hi there Jacob –

Sure- and to be clear, we still haven't been served yet so can't comment on specific details.

What would say is that we're focused on moving forward and ensuring public health and clean, safe drinking water. The governor has outlined a detailed multiple step action plan for both immediate, mid and long term. He has also appointed a task force doing a very important job of reviewing all past actions. They are a bipartisan group of people of the highest integrity, experts in their fields and widely respected who are going to do a very thorough, objective review.

Just let me know if anything more needed at all. This is for comment on behalf of Governor and rest of our administration too.

Thanks and best,
SW

From: Jacob Kanclerz [mailto:jacob@mirsnews.com]
Sent: Tuesday, November 17, 2015 3:52 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Flint suit comments

Dave and Sara,

Good afternoon! Would you guys mind sending me your statement on the possible federal class action suit filed against the Governor and others regarding the Flint water situation in case we end up doing something with it? Thank you very much.

--
Jacob Kanclerz
Reporter, MIRS News
Office: 517-482-2125
Cell: PPI
Twitter: @jacobkanclerz

From: Wurfel, Sara (GOV)
Sent: Friday, November 20, 2015 9:35 AM
To: Egan, Paul
Cc: Murray, David (GOV)
Subject: Re: Flint water

Covered this issue previously with Nancy, Paul, as has Terry. Not sure what's new or different here at all, but will be happy to try and help.

The chief mentioned this am you reached out and asked me to cover.

Am with the governor at events this first part of today, but should be able to call about Noon or just after. Work for you?

Sara Wurfel
Press Secretary | Executive Office of Governor Rick Snyder

Sent from my iPhone

On Nov 20, 2015, at 8:43 AM, Egan, Paul <pegan@freepress.com> wrote:

> Good morning, Sara: I sent the e-mail below to Dennis on Thursday but I haven't received a response. I am following up with you because Nancy Kaffer tells me she had raised the issue of the March 25, 2013 phone call with you earlier, though the last I heard from Nancy about it, she had not received a response.
> We are running a story on the weekend so I would very much appreciate some answers today.
> Did Dennis Muchmore, through his consultation with former Treasurer Dillon on the day of the Flint City Council meeting, sign off on the switch to KWA, and did Muchmore inform and get sign-off from Gov. Snyder in doing so?
> Thanks, Paul
> cc Dave Murray
>
> ---
>
> **From:** Egan, Paul
> **Sent:** Thursday, November 19, 2015 11:17 AM
> **To:** 'muchmored@michigan.gov'
> **Subject:** Flint water
>
> Hi Dennis: Some time ago I obtained former Treasurer Andy Dillon's appointment calendar, under FOIA. On March 25, 2013, at 5 p.m., it lists: "Call with Dennis Muchmore regarding Flint Water Supply Alternatives."
> Later that evening, the city council of Flint, which was under a state-appointed emergency manager, voted to switch its water supply from the city of Detroit to a new Karegnondi Water Authority.
> Can you please call me to discuss your/the state's role in that decision?
> Also, for another time, maybe in December, would love to do an exit interview before you leave your current post.
> Thanks, Paul

o. 517-372-8660
c PPI

From: Wurfel, Sara (GOV)
Sent: Friday, November 20, 2015 10:01 AM
To: Murray, David (GOV)
Subject: Re: Flint blood level data

Talked with Gov about this briefly. He def indicated preference waiting until early next week to ensure best messaging and outreach.

They took this long - let's get this right.

Sent from my iPhone

On Nov 20, 2015, at 9:41 AM, Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov> wrote:

> We're talking to the director to and will give you a call soon.
>
> Jennifer
>
> ---
>
> **From:** Murray, David (GOV)
> **Sent:** Friday, November 20, 2015 9:34:35 AM
> **To:** Eisner, Jennifer (DHHS); Wurfel, Sara (GOV); Brown, Jessica (GOV); Kennedy, Jordan (GOV); Heaton, Anna (GOV); Biehl, Laura (GOV); Agen, Jarrod (GOV)
> **Cc:** Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ); Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS); Hertel, Elizabeth (DHHS)
> **Subject:** RE: Flint blood level data
>
> I don't think this should happen today at all. Governor is at an important event in Southeast Michigan this morning, and I think we need some direction from him and others on this issue.
>
> ---
>
> **From:** Eisner, Jennifer (DHHS)
> **Sent:** Friday, November 20, 2015 9:30 AM
> **To:** Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>; Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>; Heaton, Anna (GOV) <HeatonA@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>
> **Cc:** Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Tommasulo, Karen (DEQ) <TommasuloK@michigan.gov>; Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>; Hertel, Elizabeth (DHHS) <HertelE@michigan.gov>
> **Subject:** Re: Flint blood level data
>
> Thanks Dave. We're talking with population health now and will send around an updated version as soon as possible.
>
> Will be in touch as soon re: timeline but the notifications are not happening right at 9:30.
>
> Best,
> Jennifer

From: Murray, David (GOV)
Sent: Thursday, November 19, 2015 6:24:48 PM
To: Eisner, Jennifer (DHHS); Wurfel, Sara (GOV); Brown, Jessica (GOV); Kennedy, Jordan (GOV); Heaton, Anna (GOV); Biehl, Laura (GOV); Agen, Jarrod (GOV)
Cc: Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ); Lasher, Geralyn (DHHS); Minicuci, Angela (DHHS)
Subject: Flint blood level data

Good evening, MDHHS friends,

Here are suggested changes to the press release. I think it's vitally important to have our "people first" approach, and be very up front about the results. I also think it's important to show up high what we will do with this data. Please consider the changes. I also think it's worth a conversation about whether we want to release this on a Friday morning. This is a challenging situation to be sure, but I think these results are fairly encouraging considering some of the heated rhetoric on this issue.

Thank you,

Dave

FOR IMMEDIATE RELEASE CONTACT: Jennifer Eisner
DRAFT
(517) 241-2112

MDHHS releases October data outlining blood lead levels in Flint
Results show 24 of 963 people tested had elevated levels

LANSING, Mich. – Blood lead level testing results released today revealed that 24 of 963 adults and children tested in Flint in October had elevated levels, according to the Michigan Department of Health and Human Services.

MDHHS is working closely with the Genesee County Health Department to reach out to families testing with higher levels and help them reduce their exposure to lead sources.

Information was gathered from tests administered citywide to 963 children and adults between October 1 and October 30. Eighteen people age 17 or younger had elevated blood lead levels. Six adults over the age 18 were identified with elevated blood lead levels.

The report is intended to inform residents about blood lead level testing efforts in Flint and provide cumulative total numbers.

"Our goal is to help families reduce their exposure to lead sources," said Dr. Eden Wells, chief medical executive with the MDHHS. "We have made

progress in testing and identifying those with elevated blood lead levels, and the department will continue to work closely with county health department to reach these families. We will update these numbers on a regular basis and remain diligent in our ongoing outreach and education."

The data in the report include the total number of tests conducted and the total number of elevated blood lead levels greater than 5 micrograms per deciliter, and captures both capillary and venous blood tests. People who have had multiple tests are counted only once. The full report is posted online at www.michigan.gov/flintwater and will be updated as more data becomes available.

The testing is part of the state's action plan to address health concerns related to Flint's water infrastructure.

Last month, MDHHS collaborated with the county health department and local partners to distribute educational resources and informational letter to Flint parents regarding lead testing. GCHD nursing staff are conducting direct outreach to families when an elevated blood lead level has been detected, serving as an important resources by addressing questions and concerns, providing information, and meeting them in their home environment.

MDHHS continues to provide free water filters and replacement cartridges to Flint residents at four locations including the MDHHS Flint offices and the Genesee County Community Action Resource Department. For a full list of locations and hours of distribution, visit www.michigan.gov/flintwater.

To help residents properly install water filters, and to demonstrate how to replace the original when it expires, MDHHS has created an instructional on the MDHHS YouTube channel. For additional updates on Flint water including updates on blood lead levels and testing results, visit www.michigan.gov/flintwater.

# # #

From: Eisner, Jennifer (DHHS)
Sent: Thursday, November 19, 2015 3:07 PM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>; Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>
Cc: Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Tommasulo, Karen (DEQ) <TommasuloK@michigan.gov>; Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>
Subject: Flint EBL Data

Good afternoon:

Attached, please find the blood lead level test results for Flint zip codes 48501-48507, as well as a corresponding press release and talking points. With your approval and edits, we are planning to notify

external partners tomorrow at 9:30 a.m. then post the report on www.michigan.gov/flintwater and issue the press release at 10 a.m.

Please let us know if you have any questions or concerns.

Thanks and best,

Jennifer Eisner
Public Information Officer
Michigan Department of Health and Human Services
Office: 517-241-2112 or EisnerJ@michigan.gov
Cell PPI

From: Wurfel, Sara (GOV)
Sent: Friday, November 20, 2015 12:46 PM
To: Egan, Paul
Subject: Re: Flint water

Got pulled onto a conference call on my way back from Detroit, Paul. Hopefully freed up no later than 2 PM. I will call ASAP

Sent from my iPhone

> On Nov 20, 2015, at 9:45 AM, Egan, Paul <pegan@freepress.com> wrote:
>
> Ok thanks
>
> Sent from my iPhone
>
>> On Nov 20, 2015, at 9:34 AM, Wurfel, Sara (GOV) <Wurfels@michigan.gov> wrote:
>>
>> Covered this issue previously with Nancy, Paul, as has Terry. Not sure what's new or different here at all, but will be happy to try and help.
>>
>> The chief mentioned this am you reached out and asked me to cover.
>>
>> Am with the governor at events this first part of today, but should be able to call about Noon or just after. Work for you?
>>
>> Sara Wurfel
>> Press Secretary | Executive Office of Governor Rick Snyder
>>
>> Sent from my iPhone
>>
>> On Nov 20, 2015, at 8:43 AM, Egan, Paul <pegan@freepress.com<mailto:pegan@freepress.com>> wrote:
>>
>> Good morning, Sara: I sent the e-mail below to Dennis on Thursday but I haven't received a response. I am following up with you because Nancy Kaffer tells me she had raised the issue of the March 25, 2013 phone call with you earlier, though the last I heard from Nancy about it, she had not received a response.
>> We are running a story on the weekend so I would very much appreciate some answers today.
>> Did Dennis Muchmore, through his consultation with former Treasurer Dillon on the day of the Flint City Council meeting, sign off on the switch to KWA, and did Muchmore inform and get sign-off from Gov. Snyder in doing so?
>> Thanks, Paul
>> cc Dave Murray
>>
>>
>> From: Egan, Paul
>> Sent: Thursday, November 19, 2015 11:17 AM
>> To: 'muchmored@michigan.gov<mailto:muchmored@michigan.gov>'
>> Subject: Flint water

>>
>> Hi Dennis: Some time ago I obtained former Treasurer Andy Dillon's appointment calendar, under FOIA.
>> On March 25, 2013, at 5 p.m., it lists: "Call with Dennis Muchmore regarding Flint Water Supply Alternatives."
>> Later that evening, the city council of Flint, which was under a state-appointed emergency manager, voted to switch its water supply from the city of Detroit to a new Karegnondi Water Authority.
>> Can you please call me to discuss your/the state's role in that decision?
>> Also, for another time, maybe in December, would love to do an exit interview before you leave your current post.
>> Thanks, Paul
>> o. 517-372-8660
>> c. PPI
>>

From: Wurfel, Sara (GOV)
Sent: Sunday, November 22, 2015 9:47 PM
To: Murray, David (GOV); Biehl, Laura (GOV); Bedan, Morgan (GOV)
Subject: Fwd: Questions
Attachments: image001.png

Please see below - for tomorrow's Steve Hood interview.

Sent from my iPhone

Begin forwarded message:

> **From:** Steve Hood <steve@roninamerica.net>
> **Date:** November 22, 2015 at 6:48:07 PM EST
> **To:** <wurfels@michigan.gov>
> **Subject: Questions**
>
> Sara, there are only two questions for tomorrow's interview:

Not Responsive

> Question 2: How are you going to fix Flint's water system problems and how will you keep a situation like this from happening again.
> ***Please note, I am not going after the "why" of Flint. I just want to hear the solution.***

The linked image cannot be displayed. The file may have been moved, renamed, or deleted. Verify that the link points to the correct file and location.
RONIN AMERICA
14450 SCRIPPS
DETROIT, MI 48215
EMAIL:STEVE@RONINAMERICA.NET
Ph:313-737-9311

From: Wurfel, Sara (GOV)
Sent: Sunday, November 22, 2015 9:58 PM
To: Murray, David (GOV)
Subject: Re: Questions

I will fill you in tomorrow am on what else to likely expect too.

And this really won't be two Qs - more like two areas that will have several related follow ups Qs - whatever can fit into 20 mins.

Sent from my iPhone

On Nov 22, 2015, at 9:47 PM, Murray, David (GOV) <MurrayD1@michigan.gov> wrote:

> Thanks! I'll brief the G prior.
>
> **From:** Wurfel, Sara (GOV)
> **Sent:** Sunday, November 22, 2015 9:47 PM
> **To:** Murray, David (GOV) <MurrayD1@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>; Bedan, Morgan (GOV) <BedanM@michigan.gov>
> **Subject:** Fwd: Questions
>
> Please see below - for tomorrow's Steve Hood interview.
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> > **From:** Steve Hood <steve@roninamerica.net>
> > **Date:** November 22, 2015 at 6:48:07 PM EST
> > **To:** <wurfels@michigan.gov>
> > **Subject: Questions**
> >
> > Sara, there are only two questions for tomorrow's interview:
> >
> > **Not Responsive**
> >
> > Question 2: How are you going to fix Flint's water system problems and how will you keep a situation like this from happening again.
> > ***Please note, I am not going after the "why" of Flint. I just want to hear the solution.***

RONIN AMERICA
14450 SCRIPPS
DETROIT, MI 48215
EMAIL:STEVE@RONINAMERICA.NET
Ph:313-737-9311

From: Wurfel, Sara (GOV)
Sent: Sunday, November 22, 2015 10:04 PM
To: Murray, David (GOV)
Subject: Re: Questions

Not Responsive

Sent from my iPhone

On Nov 22, 2015, at 9:59 PM, Murray, David (GOV) <MurrayD1@michigan.gov> wrote:

Not Responsive

From: Wurfel, Sara (GOV)
Sent: Sunday, November 22, 2015 9:58 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Re: Questions

I will fill you in tomorrow am on what else to likely expect too.

And this really won't be two Qs - more like two areas that will have several related follow ups Qs - whatever can fit into 20 mins.

Sent from my iPhone

On Nov 22, 2015, at 9:47 PM, Murray, David (GOV) <MurrayD1@michigan.gov> wrote:

Thanks! I'll brief the G prior.

From: Wurfel, Sara (GOV)
Sent: Sunday, November 22, 2015 9:47 PM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Biehl, Laura (GOV) <BiehlL@michigan.gov>; Bedan, Morgan (GOV) <BedanM@michigan.gov>
Subject: Fwd: Questions

Please see below - for tomorrow's Steve Hood interview.

Sent from my iPhone

Begin forwarded message:

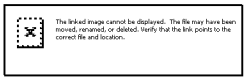
From: Steve Hood <steve@roninamerica.net>
Date: November 22, 2015 at 6:48:07 PM EST

To: <wurfels@michigan.gov>
Subject: Questions

Sara, there are only two questions for tomorrow's interview:

Not Responsive

Question 2: How are you going to fix Flint's water system problems and how will you keep a situation like this from happening again.
Please note, I am not going after the "why" of Flint. I just want to hear the solution.



RONIN AMERICA
14450 SCRIPPS
DETROIT, MI 48215
EMAIL:STEVE@RONINAMERICA.NET
Ph:313-737-9311

Subject:	Call with Dennis Muchmore regarding Flint Water Supply Alternatives
Location:	Dial in number PPI access PPI Brom to host
Start:	Mon 3/25/2013 5:00 PM
End:	Mon 3/25/2013 5:30 PM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	Hichez, Amy (Treasury)
Required Attendees:	Dillon, Andy (Treasury); Stibitz, Brom (Treasury); Muchmore, Dennis (GOV)
Optional Attendees:	Hichez, Amy (Treasury); Cousineau, Sara (Treasury); Wisniewski, Wendy (GOV)

Confirmed with Wendy on 3/20/13.

Subject:	--Call regarding KWA
Location:	dial in PPI Access PPI -brom to host
Start:	Fri 3/29/2013 11:00 AM
End:	Fri 3/29/2013 11:30 AM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	Hichez, Amy (Treasury)

Subject: RDS/GT/VB - KWA & DWSD (Water) Meeting
Location: Governor's SE MI Office

Start: Fri 4/19/2013 3:00 PM
End: Fri 4/19/2013 4:30 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Tentatively accepted

Organizer: GovCalendar
Required Attendees: Hichez, Amy (Treasury); Muchmore, Dennis (GOV); Wisniewski, Wendy (GOV); Rustem, William (GOV); Brader, Valerie (GOV); Tedder, Greg (GOV)
Optional Attendees: Clayton, Stacie (GOV); Thelen, Mary Beth (DEQ)

PPI

Host: **PPI** to dial in as Host

Attendees:
RDS/GT in person, Val Brader by phone
Mr. Orr by phone
Harvey Hollins by phone or in person
Attending from DWSD: Jim Fausone, Sue McCormick (Director), Nikki Bateson (CFO)
Attending from Flint: Ed Kurtz and Flint Mayor Dayne Walling
Attending from Treasury: Andy Dillon, Amy Hichez
Attending from DEQ: Dan Wyant
George Karmo from Tucker Young Jackson Tull Inc

Message

From: Gadola, Michael (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=GADOLAM]
Sent: 3/15/2012 3:31:53 PM
To: Wyant, Dan (DEQ) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=WyantD1]; Dillon, Andy (Treasury) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DillonA2]; Muchmore, Dennis (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Muchmored]
CC: Seaks, Lynn (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=SeaksL]
Subject: FW: March 21, 2012 DWSD Meeting
Attachments: 20120312093621678.pdf; 20120312102445416.pdf

Attorney-Client Privilege

From: Monticello, Frank (AG)
Sent: Thursday, March 15, 2012 10:39 AM
To: Gadola, Michael (GOV)
Subject: FW: March 21, 2012 DWSD Meeting

Attorney-Client Privilege

From: Manning, Peter (AG)
Sent: Thursday, March 15, 2012 10:15 AM
To: Isaacs, Carol (AG); Ianni, Robert (AG); Monticello, Frank (AG)
Cc: Stevenson, Pamela (AG)
Subject: FW: March 21, 2012 DWSD Meeting

Attorney-Client Privilege

Attorney-Client Privilege

From: Hollins, Harvey (GOV)
Sent: Sunday, February 15, 2015 10:46 PM
To: Saxton, Thomas (Treasury); Baird, Richard (GOV); Muchmore, Dennis (GOV)
Cc: Workman, Wayne (TREASURY)
Subject: RE: Re: Flint

Tom,
Thanks. I'd like to get such a table out to the Flint stakeholders; however, before doing so, the table probably needs to be modified to better reflect the comparison between Flint River and DWSD.

--HH

From: Saxton, Thomas (Treasury)
Sent: Friday, February 13, 2015 8:10 PM
To: Baird, Richard (GOV); Muchmore, Dennis (GOV); Hollins, Harvey (GOV)
Cc: Workman, Wayne (TREASURY)
Subject: Re: Re: Flint

You may have already seen this (below) blurb from MLive. Also, I had a call from Jerry A. He indicated Veolia is coming to the same conclusion that it may involve tweaking of the process vs some major undertaking. We will know more next week.

I have also attached a table Wayne's & Jerry's staff put together. My sense is there is still this thought that hooking back up to DWSD is cost neutral or nearly so. Hopefully this table shows that is not the case. The info is consistent with we sent you the other day i.e., there is an estimated 30% rate impact.

FLINT, MI – A water quality expert who has spent years working with environmentalist Erin Brockovich is expected to speak at two events in Flint Saturday, Feb. 14.
Robert W. Bowcock, founder of Integrated Resource Management, met with Mayor Dayne Walling, Councilman Wantwaz Davis and others Friday, Feb. 13.
Bowcock said earlier this week that he believes small treatment and distribution adjustments could help fix some of Flint's water quality problems. He toured the city's water treatment plant Friday.
Walling declined to comment on his conversation with Bowcock, but city Councilman Eric Mays said he is anxious to hear his assessment and recommendations.

Davis said Bowcock was straightforward in giving his opinion that the city can cut back on some of the chemicals being used to treat water.

City spokesman Jason Lorenz issued a statement, saying, "The city of Flint honored a request for a tour of its water treatment plant submitted by Mr. Bowcock, as it has done with individuals and groups in the past.

"(Director of Public Works) Director Howard Croft and F-1 Licensed Treatment Operator Mike Glasgow guided the tour and answered all of Mr. Bowcock's questions. Tours of the Water Treatment Plant can be arranged by appointment for interested groups by calling 810-787-6537."

Bowcock is scheduled to join in a march for water quality through downtown Flint, which is planned to begin at 1 p.m. Saturday at Flint City Hall, 1101 S. Saginaw St., and end at The Durant.

Bowcock is also scheduled to speak at a forum at the Saints of God Church, 2200 Forest Hill Ave., Flint, from 3-4:15 p.m.

Brockovich, portrayed by Julia Roberts in a 2000 movie about her fight over the pollution of a California town, has been speaking out on Facebook about Flint's water issues for several weeks. Today, she posted a photo of Bowcock, Davis and march organizer Melissa Mays inside the Flint water plant, saying she was "so honored this community would seek my help ... and I am glad I could send Bob to get it done."

In addition to customer complaints about the price and quality of the water, there were several boil water advisories in Flint in 2014 and the city was found in violation of the Safe Drinking Water Act for excess total trihalomethanes in the water supply last year.

The city began using the Flint River as its source of drinking water in April after 50 years of handling only the distribution of already-treated Lake Huron water purchased from the Detroit Water and Sewerage Department.

Since that time, some citizens and members of the City Council have advocated abandoning the use of the river and purchasing lake water from the Detroit until the Karegnondi Water Authority pipeline is complete.

The city and Genesee County are partners in the KWA.

.

From: Baird, Richard (GOV)
Sent: Thursday, February 12, 2015 11:34 PM
To: Muchmore, Dennis (GOV); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Fwd: Re: Flint

Sent from my Verizon Wireless 4G LTE DROID
---------- Forwarded message ----------
From: Robert Daddow <daddowr@oakgov.com>

Date: Feb 12, 2015 11:32 PM
Subject: Re: Flint
To: "Baird, Richard (GOV)" <bairdr@michigan.gov>
Cc:

Should not have thought politically but financially in the first place. This is very doable. We need to chat. Rjd

On Feb 12, 2015, at 10:32 PM, Bart Foster <bfoster@fostergroupllc.com> wrote:

> Actually, my quick take is about 8%.
>
> Some background:
> When Flint left, the annual revenue profile for the Water System was initially reduced by $12.5 million, However, we immediately recalculated the rate for Genesee County (recognizing their higher demands), to effectively "claw back" about $2 million of the reduction, so the net Flint impact is ~ $10.5 million, or just under 2.5% of the (reduced) Water System rate revenue. Assuming that same amount could be replaced, and all else being equal, the "system rate increase" could be reduced by about 3 percent, with a bit more of the reduction occurring in the suburban wholesale rate structure. Safe to say that (again, absent any other changes) the average suburban water rate increase would be closer to 8 percent compared to the current 11.1%.
>
> Hope this helps . . .
> --
> Bart Foster
> President
> THE FOSTER GROUP
> (913) 345-1410
> (913) 345-1640 fax
> PPI cell
> bfoster@fostergroupllc.com <mailto:bfoster@fostergroupllc.com>
> *Please note that the information in this message along with any attachments are intended for the exclusive use of the addressee and may contain confidential or privileged information. If you are not the intended recipient, please do not forward, copy or print the message or its attachments: notify me at the above address and delete this message and any attachments.*
> *Thank you.*
>
> On Feb 12, 2015, at 7:02 PM, Bart Foster <bfoster@fostergroupllc.com> wrote:
>
> Bob - in transit but will review and reply this evening.
>
> Sent from my iPhone
>
> On Feb 12, 2015, at 3:44 PM, Daddow, Robert <daddowr@oakgov.com> wrote:
>
> > Nikki / Bart – don't need a hard and fast number on this. However, it would seem to me that in a fixed cost system such as water, if Flint were to be hooked up again at the $847K / month cited in Ms. McCormick's January 12th memorandum and after the release of the rates yesterday, bringing Flint back would – on a marginal cost basis –

serve to mitigate the wholesale (suburban) customer rate increase of 11.1% cited in yesterday's presentation. Without going into a whole lot of detailed calculations (unless necessary), what would the impact of the inclusion of Flint starting say on July 1, 2015 (hypothetical date) be on the rate increase presently now in the public? A revised increase of what – 10.6% - looking for a high level sensitivity analysis here. Can you help? RJD

From: Muchmore, Dennis (GOV)
Sent: Thursday, February 28, 2013 6:56 PM
To: Dillon, Andy (Treasury); Stibitz, Brom (StibitzB@michigan.gov)
Subject: FW: Flint water bills

Just another example.

From: Corrigan, Maura (DHS)
Sent: Thursday, February 21, 2013 1:00 PM
To: Muchmore, Dennis (GOV)
Cc: Berger, Duane (DHS); Yager, Steve (DHS)
Subject: FW: Flint water bills

Can we do anything at all about this gouging?

From: Yager, Steve (DHS)
Sent: Thursday, February 21, 2013 12:00 PM
To: Berger, Duane (DHS); Corrigan, Maura (DHS)
Cc: Beurer, Terrence (DHS)
Subject: FW: Flint water bills

See below—is this something we might mention to Dennis M. ? This is a legitimate concern in my estimation.

From: Rauch, Randy (DHS)
Sent: Wednesday, February 20, 2013 3:18 PM
To: Yager, Steve (DHS)
Subject: Flint water bills

Steve,
I am wondering, if somehow, I could send a letter to the Governor regarding the water bills in the City of Flint. Effective 3-1-13, the City will now require a $350 service fee for turning on water to a home. Shut off accounts and new water applications. Plus a $75 deposit on top of that.
The fee was $100. This is on top of a change that took effect just a few months ago of increasing the water fee to $53 per month just to have water in the home. Then the usage is on top of that. This is the city managers way of trying to balance their budget.
People in Flint cannot afford this. DHS cannot afford this. It is hurting our SER funding and my CP/CP funding. People in Flint cannot live with these rates. I feel somehow the Governor needs to hear about this.
I have asked numerous times to meet with the City manager with no luck. My own Board member is an advisor to the city manager and I have asked him to set up a meeting and he has not.
What can we do to get the Governor's ear?

Randy Rauch
Child Welfare Director
Genesee Co. DHS
810-760-2648

From: Muchmore, Dennis (GOV)
Sent: Friday, March 29, 2013 8:02 AM
To: Hichez, Amy (Treasury)
Subject: Accepted: --Call regarding KWA

From: Muchmore, Dennis (GOV)
Sent: Friday, March 29, 2013 9:40 AM
To: Dillon, Andy (Treasury)
Subject: Re: KWA

Wow, what happened? I thought we were going the other way.

On Mar 28, 2013, at 6:17 PM, "Dillon, Andy (Treasury)" <DillonA2@michigan.gov> wrote:

> Governor, based upon today's presentations to the DEQ by the City of Flint, KWA and the engineering firm (Tucker Young) Treasury hired to vet the options as to whether Flint should stay with DWSD or join KWA, I am recommending we support the City of Flint's decision to join KWA. The City's EM, Mayor and City Council all support this decision. Dan Wyant likewise concurs and will confirm via email.
>
> We have a briefing call tomorrow morning with Dennis and John to provide more background as to why we reached this conclusion. Flint's EM wants to sign the resolution asap as the project is moving forward with or without them and their participation affects the design and the construction season is upon them.
>
> I assume DWSD will make a last ditch effort to save the customer but I will not advise them of my recommendation until we brief Dennis and John.
>
> Regards,
>
> Andy
>
>
> Sent from my iPad

From: Muchmore, Dennis (GOV)
Sent: Friday, March 29, 2013 1:31 PM
To: Snyder, PPI
Subject: FW: KWA

Both Dan and Andy believe that the discussions held in the past with DWSD and Flint have been contentious and not fruitful. What we are going to do is tell Flint that if they believe it is in Flint's interest they should sign and submit to Andy for his approval. Brom will tell them that. At the same time we will inform DWSD that this is happening and if they want to make a last attempt they should do so during the period of time that Andy is deliberating on his counter signature. Dan does not believe that DWSD has been straight and doesn't think they will offer anything and Andy concurs. Under any circumstances Flint will have to deal with DWSD on the present delivery system and that may create some negotiations but it's doubtful they will be significant.

We will encourage DWSD to make an attempt. We did call them together as recently as November to negotiate and those discussions were not successful. Andy and Dan will make one last effort.

-----Original Message-----
From: Dillon, Andy (Treasury)
Sent: Thursday, March 28, 2013 6:18 PM
To: Snyder, PPI; Muchmore, Dennis (GOV); Roberts, John (GOV); Wyant, Dan (DEQ)
Cc: Stibitz, Brom (Treasury); Fraser, Roger (Treasury); Saxton, Thomas (Treasury)
Subject: KWA

Governor, based upon today's presentations to the DEQ by the City of Flint, KWA and the engineering firm (Tucker Young) Treasury hired to vet the options as to whether Flint should stay with DWSD or join KWA, I am recommending we support the City of Flint's decision to join KWA. The City's EM, Mayor and City Council all support this decision. Dan Wyant likewise concurs and will confirm via email.

We have a briefing call tomorrow morning with Dennis and John to provide more background as to why we reached this conclusion. Flint's EM wants to sign the resolution asap as the project is moving forward with or without them and their participation affects the design and the construction season is upon them.

I assume DWSD will make a last ditch effort to save the customer but I will not advise them of my recommendation until we brief Dennis and John.

Regards,

Andy

Sent from my iPad

From: Muchmore, Dennis (GOV)
Sent: Friday, March 29, 2013 3:10 PM
To: Dillon, Andy (Treasury)
Subject: Flint

How does Kurtz propose to protect them from cost overruns? Did they get a low ball price and how do we keep it from ballooning? Finally, what does that do to the sale value of DWSD?

Sent from my iPhone

From: Muchmore, Dennis (GOV)
Sent: Thursday, April 04, 2013 9:43 AM
To: Snyder, R PPI
Cc: Scott, Allison (GOV)
Subject: Just a head's up

As you know, the Flint people have requested Dillon's ok to break away from the DWSD. Andy has reviewed the proposed action, had it analyzed by Treasury and Dan Wyant and DEQ, and they all agree that Flint is correct. I have no way of determining whether this is the right action except to depend on the two departments charged with this responsibility, so I recommend that we support their determination and let the chips fall where they may. This will happen early next week, so we need to have you made aware and develop a message of support if that is what you want to do.

We'll need to make sure that Orr knows about this as soon as possible so he can take it into his calculations. It would certainly diminish the DWSD base, and probably spin off a series of political questions for others still involved in the Detroit system. But, I don't see how you can support Detroit to the detriment of the rest of the state. You've done a lot for the city, but you also need to have a strong support for outstate for 2014.

Sorry to bug you on your vacation, but the two emails today couldn't be avoided. I was trying to think of a way to make it up to you, so here goes: GO BLUE! (That was really tough to say…).

Dennis C. Muchmore
Chief of Staff
Governor Rick Snyder, Michigan
PPI

Message

From: Muchmore, Dennis (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=MUCHMORED]
Sent: 4/4/2013 10:07:06 PM
To: Snyder, Rick (GOV) PPI
PPI
CC: Scott, Allison (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Scotta12]
Subject: RE: Just a head's up

They have been notified per the plan and have until Andy returns next week to present their counter proposal. The concept is executed. Sorry for the confusion but they haven't followed up with Flint and I thought you should know we were moving to the next step at the end of the ten days. I was indicating that we were expecting to move forward in case you had further reservations and wanted us to delay further.

From: Snyder, PPI
Sent: Thursday, April 04, 2013 5:14 PM
To: Muchmore, Dennis (GOV)
Cc: Scott, Allison (GOV)
Subject: Re: Just a head's up

Before I left, I thought all of us agreed that someone would let DWSD know that they were going to lose a key customer and that they would have 10 days to present a serious counter. What happened to this concept?

Thanks

Rick

Sent from my iPad

On Apr 4, 2013, at 9:43 AM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

As you know, the Flint people have requested Dillon's ok to break away from the DWSD. Andy has reviewed the proposed action, had it analyzed by Treasury and Dan Wyant and DEQ, and they all agree that Flint is correct. I have no way of determining whether this is the right action except to depend on the two departments charged with this responsibility, so I recommend that we support their determination and let the chips fall where they may. This will happen early next week, so we need to have you made aware and develop a message of support if that is what you want to do.

We'll need to make sure that Orr knows about this as soon as possible so he can take it into his calculations. It would certainly diminish the DWSD base, and probably spin off a series of political questions for others still involved in the Detroit system. But, I don't see how you can support Detroit to the detriment of the rest of the state. You've done a lot for the city, but you also need to have a strong support for outstate for 2014.

Sorry to bug you on your vacation, but the two emails today couldn't be avoided. I was trying to think of a way to make it up to you, so here goes: GO BLUE! (That was really tough to say…).

Dennis C. Muchmore

Chief of Staff

Governor Rick Snyder, Michigan

PPI

From: Muchmore, Dennis (GOV)
Sent: Thursday, April 04, 2013 6:11 PM
To: Dillon, Andy (Treasury); Stibitz, Brom (StibitzB@michigan.gov)
Subject: Flint and DWSD- IMPORTANT

I assume that DWSD hasn't talked with Flint yet and presented a last chance proposal. Have you heard anything from your conversations with them last week? If Andy is back on Monday, that will be ten days since you talked with them about the potential loss of a big customer. I assume Andy can wait until the 10th or so? That would have given them nearly two weeks to make an effort and protect us from as much criticism.

Dennis C. Muchmore
Chief of Staff
Governor Rick Snyder, Michigan
PPI

From: Muchmore, Dennis (GOV)
Sent: Thursday, April 04, 2013 6:28 PM
To: Stibitz, Brom (Treasury)
Cc: Dillon, Andy (Treasury)
Subject: RE: Flint and DWSD- IMPORTANT

Who did you talk to at DWSD? We'll need to be able to prove we went the extra mile on this one. How soon do we tell Orr?

From: Stibitz, Brom (Treasury)
Sent: Thursday, April 04, 2013 6:27 PM
To: Muchmore, Dennis (GOV)
Cc: Dillon, Andy (Treasury)
Subject: Re: Flint and DWSD- IMPORTANT

We haven't heard anything from them, other than a couple letters of opposition. I have asked Mike Brown to let me know if they do hear anything.

On Apr 4, 2013, at 6:11 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

> I assume that DWSD hasn't talked with Flint yet and presented a last chance proposal. Have you heard anything from your conversations with them last week? If Andy is back on Monday, that will be ten days since you talked with them about the potential loss of a big customer. I assume Andy can wait until the 10th or so? That would have given them nearly two weeks to make an effort and protect us from as much criticism.
>
> Dennis C. Muchmore
> Chief of Staff
> Governor Rick Snyder, Michigan
> **PPI**

From: Muchmore, Dennis (GOV)
Sent: Thursday, April 04, 2013 7:28 PM
To: Stibitz, Brom (Treasury)
Cc: Dillon, Andy (Treasury)
Subject: RE: Flint and DWSD- IMPORTANT

Thanks. When should I tell Orr or do you want to?

From: Stibitz, Brom (Treasury)
Sent: Thursday, April 04, 2013 6:29 PM
To: Muchmore, Dennis (GOV)
Cc: Dillon, Andy (Treasury)
Subject: Re: Flint and DWSD- IMPORTANT

Matt Schenk

On Apr 4, 2013, at 6:27 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

> Who did you talk to at DWSD? We'll need to be able to prove we went the extra mile on this one. How soon do we tell Orr?
>
> ---
>
> **From:** Stibitz, Brom (Treasury)
> **Sent:** Thursday, April 04, 2013 6:27 PM
> **To:** Muchmore, Dennis (GOV)
> **Cc:** Dillon, Andy (Treasury)
> **Subject:** Re: Flint and DWSD- IMPORTANT
>
> We haven't heard anything from them, other than a couple letters of opposition. I have asked Mike Brown to let me know if they do hear anything.
>
> On Apr 4, 2013, at 6:11 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:
>
> > I assume that DWSD hasn't talked with Flint yet and presented a last chance proposal. Have you heard anything from your conversations with them last week? If Andy is back on Monday, that will be ten days since you talked with them about the potential loss of a big customer. I assume Andy can wait until the 10th or so? That would have given them nearly two weeks to make an effort and protect us from as much criticism.
> >
> > Dennis C. Muchmore
> > Chief of Staff
> > Governor Rick Snyder, Michigan
> > **PPI**

From: Muchmore, Dennis (GOV)
Sent: Tuesday, April 09, 2013 11:32 AM
To: Stibitz, Brom (Treasury); Dillon, Andy (Treasury)
Subject: RE: DWSD Letter

I think Ed should respond to McCormick. I wouldn't have reacted quite so negatively, but then that's me. I would encourage him to always stress that they are open to new proposals, but haven't seen one. But, I'm in no position to rewrite emails. I do think that a clean closure on both sides is warranted. It's not like KWA wouldn't still need a negotiating posture with DWSD.

What was Sue's response to the request for a last best offer? I take it she wasn't interested, or at least didn't feel that she could offer any more than previously done? Schenk's about as good as you can get in public life, so with Sue if they don't have an offer, I can't figure out what we can do more. I'm really surprised that DWSD hasn't responded with a final counter.

Sounds like the well is pretty poisoned (no pun intended).

From: Stibitz, Brom (Treasury)
Sent: Tuesday, April 09, 2013 9:14 AM
To: Muchmore, Dennis (GOV); Dillon, Andy (Treasury)
Subject: DWSD Letter

Take a look...

From: Ed Kurtz [mailto:ekurtz@cityofflint.com]
Sent: Tuesday, April 09, 2013 8:20 AM
To: Stibitz, Brom (Treasury)
Subject: Fwd: DWSD

Brom, did you receive the following email yesterday. I would like to contact DWSD, but would like to hear from the Governors office before I do. Ed

---------- Forwarded message ----------
From: **Ed Kurtz** <ekurtz@cityofflint.com>
Date: Mon, Apr 8, 2013 at 10:25 AM
Subject: DWSD
To: Brom Stibitz <StibitzB@michigan.gov>

Brom, attached is a draft of a letter to Sue McCormick that I intend to email to her today, unless you have concerns with the tenor of the letter. We are just kind of tired of reading about "war" and "reckless" and "credible study" and new options in the media. Having said that, we still want to get the best deal for the people of Flint. Also, per our conversations last Friday, what is the status of the decision on our recommendation to go with KWA. Ed

From: Muchmore, Dennis (GOV)
Sent: Tuesday, April 16, 2013 6:12 PM
To: Dillon, Andy (Treasury); Stibitz, Brom (Treasury); Headen, Frederick (Treasury); Saxton, Thomas (Treasury)
Cc: Roberts, John (GOV)
Subject: RE: Flint/KWA

I thought we had settled all these questions. If so, we need to answer his email with an explanation.

From: Dillon, Andy (Treasury)
Sent: Monday, April 15, 2013 11:11 AM
To: Stibitz, Brom (Treasury); Headen, Frederick (Treasury); Saxton, Thomas (Treasury)
Cc: Muchmore, Dennis (GOV); Roberts, John (GOV)
Subject: Fwd: Flint/KWA

I don't know who Fred the Engineer is.

I spoke to Brooks Patterson Sat night. He won't get in middle of this despite Det News story.

I think we need to understand if the legacy liability issue raised twice now presents a real risk to Flint. Also, Fred were you able to sort thru rate issue we discussed?

Thanks.

Andy

Sent from my iPhone

Begin forwarded message:

> **From:** fredtheengineer <fredtheengineer@comcast.net>
> **Date:** April 15, 2013, 10:46:35 AM EDT
> **To:** "Dillon, Andy (Treasury)" <DillonA2@michigan.gov>
> **Subject: Flint/KWA**
>
> Dear Mr. Dillon:
> The report produced, at your direction, by TYJT, indicated the most economical option for Flint water is to maintain a contract with DWSD. The KWA option will cost more money. Since some of the funds for the KWA solution will come from State grants and State Revolving Fund loans, that solution will cost me more money in the form of taxes. The best solution from the economic and engineering perspective is DWSD. A purely political decision that ignores economics is not in the public interest.
> Sincerely,
>
> Fred W. Barnes, PE
>
> Sent from my iPhone

From: Muchmore, Dennis (GOV)
Sent: Wednesday, April 17, 2013 1:45 PM
To: Dillon, Andy (Treasury)
Cc: Stibitz, Brom (Treasury); Scott, Allison (GOV); Roberts, John (GOV)
Subject: KWA & DWSD

The Gov would like you to call together Orr, Kurtz, DWSD, KWA and talk the situation through. He will participate. If something is resolved it will be good, if not, so be it.

Sent from my iPhone

From: Muchmore, Dennis (GOV)
Sent: Wednesday, April 17, 2013 5:46 PM
To: Dillon, Andy (Treasury)
Subject: RE: Water meeting with Gov, Orr plus others

That's probably enough. I'll come and probably Rustem. We can use the 15th floor.

From: Dillon, Andy (Treasury)
Sent: Wednesday, April 17, 2013 4:12 PM
To: Hichez, Amy (Treasury)
Cc: Stibitz, Brom (Treasury); Muchmore, Dennis (GOV); Roberts, John (GOV); Scott, Allison (GOV)
Subject: Re: Water meeting with Gov, Orr plus others

Ok to book during that window. Can it be in Detroit? This delay likely means Flint will be pregnant w KWA by then.

We let Kurtz come w he and two or three and DWSD Fausone w same # as Flint.

Also, invite Wyant and Key engineer. One from Tucker Young.

Dennis, I didn't send Governor report from DEQ (email I sent you) but will now. Is there a max # of people for this?

Sent from my iPad

On Apr 17, 2013, at 4:04 PM, "Hichez, Amy (Treasury)" <HichezA@michigan.gov> wrote:

> The Governor would like to do this meeting next week. The Governor as well as Mr. Orr are available on Wed April 24th from 1-4pm. Andy, you requested a hold from 12-5 for a meeting with Mr. Buckfire on this day. Please clarify what you would like to do and WHO are the attendees/contacts for DWSD and KWA?
>
> -----Original Message-----
> From: Dillon, Andy (Treasury)
> Sent: Wednesday, April 17, 2013 2:19 PM
> To: Muchmore, Dennis (GOV)
> Cc: Stibitz, Brom (Treasury); Scott, Allison (GOV); Roberts, John (GOV); Hichez, Amy (Treasury)
> Subject: Re: KWA & DWSD
>
> Ok. Amy, please get available times and dates from Governor. We should ask Wyant and one of his engineers.
>
> Isn't Gov in Flint Friday? Maybe we could do it then in Flint if his schedule permits.
>
> Sent from my iPad
>
> On Apr 17, 2013, at 1:44 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

> The Gov would like you to call together Orr, Kurtz, DWSD, KWA and talk the situation through. He will participate. If something is resolved it will be good, if not, so be it.

Amy Hichez
Executive Administrator to State Treasurer Andy Dillon
Richard H. Austin Building
430 West Allegan Street
Lansing, MI 48922
Office: 517-241-2624
Cell: PPI
Fax: 517-335-1785

From: Muchmore, Dennis (GOV)
Sent: Friday, April 19, 2013 8:48 AM
To: Snyder, PPI Dillon, Andy (Treasury)
Subject: Fwd: Detroit

Advice from Scorsone re: Flint and water system.

Sent from my iPhone

Begin forwarded message:

> **From:** "Scorsone, Eric" <scorsone@anr.msu.edu>
> **Date:** April 19, 2013, 8:22:38 AM EDT
> **To:** "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
> **Cc:** "Roberts, John (GOV)" <robertsj9@michigan.gov>, "Rustem, William (GOV)" <rustemw@michigan.gov>
> **Subject: Re: Detroit**
>
> Dennis, Bill and John
>
> For what it is worth, I would look at having flint spilt off the water system into some kind of regional authority and separate the finances from the general city if you are going to move forward with kiragani. The city has a propensity to use the water system as a cash cow and it will help them avoid that problem in the future.
>
> Thanks
>
> Eric
>
> Dr. Eric Scorsone
> Michigan State University
>
> On Apr 17, 2013, at 5:44 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:
>
> **Not Responsive**
>
> -----Original Message-----
> From: Scorsone, Eric [mailto:scorsone@anr.msu.edu]
> Sent: Wednesday, April 17, 2013 4:24 PM
> To: Roberts, John (GOV); Muchmore, Dennis (GOV); Rustem, William (GOV)
> Subject: Detroit

Good Afternoon,

Not Responsive

Thanks

Eric

PPI

scorsone@msu.edu

Regards,

Eric

Dr. Eric Scorsone

Faculty Member and Workgroup Leader

Department of Agricultural, Food and Resource Economics and MSU Extension
Michigan State University

202 Agriculture Hall

East Lansing, MI 48824-1039

(517)353-9460

scorsone@msu.edu

From: Muchmore, Dennis (GOV)
Sent: Friday, April 26, 2013 8:25 AM
To: Dillon, Andy (Treasury); Stibitz, Brom (Treasury)
Cc: Snyder, PPI
Subject: Flint

If Flint is going to go into some kind of regional authority, then we need to firewall the finances of water from the general city budget. How do we keep the city from using the water system as a cash flow tool? We need to help them avoid the problem that they have been guilty of in the past of capturing water monies from customers before remittance to the Authority and using it elsewhere.
I suspect that is the motivation behind their desire to split off from DWSD. If the monies go to legacy debt it will help Flint immeasurably, if general fund then they'll never get on top of the situation. Right now their legacy debt is higher than their wages for current employees and that is obviously unsustainable. I realize I'm not telling you anything you don't already know, just re-emphasizing.

From: Muchmore, Dennis (GOV)
Sent: Wednesday, September 10, 2014 12:00 PM
To: Raleigh, Leslie
Subject: Re: John Gleason correspondence for the Governor

Tell John I got this and also is very funny message through Wendy...

On Sep 10, 2014, at 11:55 AM, "Raleigh, Leslie" <lraleigh@co.genesee.mi.us> wrote:

> Good Morning Mr. Muchmore and Ms. Wisniewski,
>
> Attached, please find a correspondence from Genesee County Clerk John J. Gleason to Governor Rick Snyder. He would appreciate it very much if you could please forward on to the Governor's attention.
>
> Thank you and Best Regards,
>
> *Leslie A. Raleigh*
> Chief Deputy Clerk/Administrative Assistant
> 900 S. Saginaw St.
> Flint, Mi. 48502
> 810-257-3224
> lraleigh@co.genesee.mi.us
>
> <JJG Letter to the Governor - Flint Water Concerns 09-10-14.pdf>

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 14, 2014 3:52 PM
To: Saxton, Tom (SaxtonT@michigan.gov); Workman, Wayne (TREASURY)
Subject: FW: Flint water

Can you guys step into this?

From: Gadola, Michael (GOV)
Sent: Tuesday, October 14, 2014 3:42 PM
To: Brader, Valerie (GOV); Muchmore, Dennis (GOV); Agen, Jarrod (GOV); Clement, Elizabeth (GOV)
Subject: RE: Flint water

Good gravy. First, just to clarify, when Valerie says GM is leaving, she means leaving the Flint water system, not abandoning the City altogether.

Second, to anyone who grew up in Flint as I did, the notion that I would be getting my drinking water from the Flint River is downright scary. Too bad the EM didn't ask me what I thought, though I'm sure he heard it from plenty of others. My Mom is a City resident. Nice to know she's drinking water with elevated chlorine levels and fecal coliform.

I agree with Valerie. They should try to get back on the Detroit system as a stopgap ASAP before this thing gets too far out of control.

From: Brader, Valerie (GOV)
Sent: Tuesday, October 14, 2014 3:30 PM
To: Muchmore, Dennis (GOV); Gadola, Michael (GOV); Agen, Jarrod (GOV); Clement, Elizabeth (GOV)
Subject: Flint water

As you know there have been problems with the Flint water quality since they left the DWSD system, which was a decision by the emergency manager there. Specifically, there has been a boil water order due to bacterial contamination. What is not yet broadly known is that attempts to fix that have led to some levels of chlorine-related chemicals that can cause long-term damage if not remedied (though we believe they will remedy them before any damage would occur in the population). Now apparently the reduced quality is causing GM to leave due to rusted parts.

I am fairly sure that GM's departure now means the economic rationale for Flint leaving DWSD in the interim while the new intake is constructed has just been eliminated. Moreover, our DEQ has been working with Flint's team to try to address the technical problem, but doing a blend of DWSD water and Flint water, or going back altogether for a year or two while the new lake intake is constructed, have not really been solutions on the table.

Now we are getting comments about being lab rats in the media, which are going to be exacerbated when it comes out that after the boil water order, there were chemicals in the water that exceeded health-based water quality standards. I think we should ask the EM to consider coming back to the Detroit system in full or in part as an interim solution to both the quality, and now the financial, problems that the current solution is causing. That additional revenue would also help DWSD, obviously, and the infrastructure is already in place, so this could be implemented quickly. I am not sure who is the best person to initiate that conversation with the EM, but I see this as an urgent matter to fix.

--Valerie

P.S. Note:I have not copied DEQ on this message for FOIA reasons. I have sent them the below message from the Senator's office and had conversations with them re making sure to brief the EM directly on the water quality issues.

From: Bryanna McGarry [BMcGarry@senate.michigan.gov]
Sent: Tuesday, October 14, 2014 12:45 PM
To: Brader, Valerie (GOV)
Cc: Tom Lenard (tomlenard@jimananich.com); Sean Walser; jananich@att.net
Subject: GM's decision to stop using Flint River water will cost Flint $400,000 per year

Hi Valerie,

Hope you're doing well. Senator Ananich asked me to forward you this article about GM's decision to stop using Flint River water: http://www.mlive.com/news/flint/index.ssf/2014/10/gms_decision_to_stop_using_fli.html. He mentioned he'd had a conversation with you about Flint's water issues and just wanted to ensure you saw the latest.

Thanks! Have a wonderful afternoon. :)

Best,

Bryanna

--
Bryanna McGarry, MSW
Legislative Director
State Senator Jim Ananich
District 27
517-373-5133

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, February 04, 2014 4:35 PM
To: Baird, Richard (GOV); BymeR1@michigan.gov; Deasy, Thomas (MSP); Etue, Kriste (MSP); Kapp, Gene (MSP); Lee, Nichole (MSP); Muchmore, Dennis (GOV); Roberts, John (GOV); Sands, Thomas (MSP); Sipes, Stephen (MSP); West, Samantha (GOV); Dempkowski, Angela (Treasury); Larkin, Brian (GOV); Darnell Earley; Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Conference Call Agenda - Wednesday, February 5, 2014
Attachments: City of Flint Wednesday Phone Conf Agenda 2-4-14.doc

Good afternoon,

Attached is the agenda for tomorrow's conference call.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00 am Phone Conference Agenda

Not Responsive

6) Water Transition Plan, Negotiations, Communications

Not Responsive

Created on: 02/04/13

PPI , **access code** PPI

Message

From: David Ottenwess [dottenwess@ottenwesslaw.com]
Sent: 3/20/2012 6:29:56 PM
To: Dillon, Andy (Treasury) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DillonA2]; Muchmore, Dennis (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Muchmored]; Gadola, Michael (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Gadolam]; Wyant, Dan (DEQ) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=WyantD1]; cpugh313@gmail.com; browngary@detroitmi.gov; Chris Brown [CBrown@detroitmi.gov]; mccormic@dwsd.org
CC: Fausone, Jim [JFausone@fb-firm.com]; Sean_Cox@mied.uscourts.gov; Katrina_Staub@mied.uscourts.gov; Diane_Lewinski@mied.uscourts.gov
Subject: Agenda
Attachments: 20120312093621678.pdf; 20120312102445416.pdf; 20120320141054881.pdf

All,

Attached is tomorrow's agenda. I have also re-attached both memoranda for your convenience.

Regards,

David M. Ottenwess

OTTENWESS, ALLMAN & TAWEEL, PLC

535 Griswold, Suite 850

Detroit, MI 48226

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(313) 965-7680

Dottenwess@ottenwesslaw.com

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CITY OF DETROIT
WATER AND SEWERAGE DEPARTMENT
BOARD OF WATER COMMISSIONERS

735 RANDOLPH STREET
DETROIT, MICHIGAN 48226-2830
PHONE: 313•224•4704 TTY:311
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WWW.DETROITMI.GOV

DWSD Fact Sheet

March 14, 2012

The Detroit Water and Sewerage Department (DWSD) is a department of the City of Detroit government. DWSD is governed by a seven-member Board of Water Commissioners (BOWC) whose members are appointed by the Mayor. Four commissioners, represent Detroit residents. Three remaining commissioners represent suburban wholesale customers with appointees from Wayne, Oakland and Macomb counties.

DWSD provides water service to the entire city of Detroit and neighboring southeastern Michigan communities throughout Wayne, Oakland, Macomb, St. Clair, Lapeer, Genesse, Washtenaw and Monroe counties. The 1,079-square-mile water service area, which includes Detroit and 126 suburban communities, makes up approximately 40 percent of the state's population. Wastewater service is also provided to a 946-square-mile area that encompasses Detroit and 76 neighboring communities. DWSD's water supply system is one of the largest in the nation both in terms of water produced and population served. The water system draws fresh water from the Great Lakes System, with Lake Huron to the north and the Detroit River to the south through 3 raw water intakes.

DWSD's water network consists of 3,438 miles of transmission and distribution mains within the City of Detroit, and 402 miles of transmission mains in the remaining service area. DWSD's five water treatment plants pump an average of 596 million gallons of clean drinking water each day. The Department is responsible for maintenance and repair of 27,244 fire hydrants in the city.

DWSD's sewer system originated in 1836, and today consists of 10 pump stations, five combined sewer overflow retention treatment basins, three screening and disinfection facilities and a total of 3,433 miles of sewer lines that carry rainwater and wastewater to the Wastewater Treatment Plant one of the largest single-site wastewater treatment facilities in the country. This facility treats an average of 707 million gallons of flow per day.

The Detroit Water and Sewerage Department, with 2,100 employees, has the fifth lowest combined water and sewerage rates per month among the 20 most populated cities in the United States. By law, DWSD can only recover the cost for provision of service, DWSD cannot make a profit. For the Fiscal Year (FY) 2011/2012 the allocated Revenue Requirement, for the Suburban Wholesale and the Detroit Retail customers: Water $355,857,000 and Sewage $464,622,300.

DWSD's July 2011 Capital Improvement Program totals approximately $1.3 billion over the next five years with approximately $216.50 million budgeted for water and sewer projects for FY 2011-12. The major projects in the Capital Improvement Program include replacement of aging water mains in Detroit; water meter replacement and automatic water reading equipment installation; rehabilitation and upgrades to water and wastewater treatment plants, pumping stations and reservoirs; rehabilitation or replacement of sewer lines and outfalls; construction of combined sewer overflow control facilities to ensure that sewer systems effectively handle storm water flows and protect the environment.

CITY OF DETROIT
WATER AND SEWERAGE DEPARTMENT
BOARD OF WATER COMMISSIONERS

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DWSD and STATE OF MICHIGAN ISSUES
March 14, 2012

I. Flint & KWA

Flint has been a contract customer of DWSD since 1965. The original 35-year contract term expired in 2000, but service continues under the terms of the original contract, pending notification to terminate (the contract requires a one-year notice) from either party. The original contract contained estimated annual volumes for every year covered by the contract, and contained a "take or pay" provision equal to one-half of the estimated figures. In 1990, after Flint's failure to purchase up to 50% of the estimated amounts in the contract, DWSD and Flint negotiated an amendment that lowered the annual estimates, but left all other terms intact. Flint sells DWSD water to Genesee County on a wholesale basis via terms of an agreement between those two parties that was originally dated 1973, with a 2013 expiration date.

(a) KWA

Genesee County has been exploring alternative sources of water for a decade. That effort is led by the County Drain Commissioner Jeff Wright. The Karegnondi Water Authority (KWA) was established to more formally coordinate the evaluation of water supply alternatives. KWA consists largely of Lapeer County, Genesee County and Flint. The KWA project involves a $600,000,000 investment to pump and transmit raw water from Lake Huron to Flint. Even KWA acknowledges it is not a better financial arrangement than DWSD for the next 30 years. KWA is presently requesting Flint to agree to participate in a $10,000,000 engineering study and reports construction could start late 2012 or spring 2013.

DWSD has not ignored this effort. Instead a technical and financial committee consisting of KWA and DWSD representatives has been working cooperatively to DWSD / Flint / Genesee County for various options for the authority. DWSD Director McCormick and BOWC Chair Fausone have met with Mr. Wright and Flint financial manager, Mr. Brown, since the new year.

The KWA communities comprise about 6 percent of the DWSD water revenue structure. DWSD and its customers (through the TAC, etc.) have expressed a desire to keep the KWA communities "on board", but have been reluctant to pursue alternatives which would do so at a cost to other customers more than the 6 percent revenue requirement increase that would occur if DWSD just let them leave.

(b) Capacity

Through its five water treatment plants DWSD has the capacity to produce up to 1.7 billion gallons per day (bgd) of water – but current demand levels are closer to 1.0 bgd. DWSD has a large amount of available "excess" production capacity, which has contributed to recent rate increases – DWSD has maintained this capacity as water demands and sales have dropped.

DWSD's new capital improvement plans, and the mission of the upcoming master plan update, are seeking the best manner to "downsize" capacity and still meet service levels to the entire Southeast Michigan region. At the same time, the "independent" KWA plan seeks to unnecessarily add new water production capacity of approximately 60 to 80 million gallons per day (mgd) to the region, while taking that demand away from the DWSD system. Clearly, this is not an efficient nor strategic investment of public dollars in the region.

(c) Impact and Compliance

At DWSD water supply and sewage disposal functions are so fundamentally intertwined as to be inseparable. Administration, finance, procurement, maintenance, security, metering, customer service and billing, enterprise system investments, programs and initiatives that are essential for one utility function are also required for the other. The Water / Sewer Rate Interrelationship is based on the reality that DWSD is a unitary department that manages and operates both Detroit's water system and its sewer system. The extent that DWSD resources and facilities directly serve both the water and sewer systems is apparent in that only approximately 40 percent of DWSD employees perform "solely water" or "solely sewer" functions. These employees are primarily located at the treatment plants. The remaining 60 percent carry out activities that benefit both systems. The costs of these resources and facilities are shared between the two utility systems. The water rates provide the funding mechanism for the water system's share and the sewer rates provide the funding mechanism for the sewer system's share. The ability of the sewer system to carry out its mission and achieve long term compliance with the Clean Water Act is directly impacted by the ability of the water system to provide its share of the funding for these resources common to the water and sewer systems.

DWSD is requesting the State, which has appointed a financial manager for Flint, consider a regional approach to decisions of water and sewerage services. The State should not encourage or authorize DWSD customers to cannibalize the existing system, and to add additional regional debt thereby increasing the pressure on DWSD's customers to support existing debt and operations.

II. Distressed Communities and Customers

In recent years, the global economic issues have had a significant impact on Southeast Michigan and DWSD. With significant loss of water use (sales) and the commensurate sewer use (sales), rates for both services have risen substantially to cover costs associated with past and current capital investments. Compounding the decline in sales is the increasing bad debt on the systems from both Detroit and customer communities.

Detroit Public Schools and Highland Park, both under State oversight, are in significant arrearage to DWSD. The DPS accounts receivable is approximately $11,000,000. The Highland Park account receivable is at $9,576,165.

In recent months, the problems in Highland Park have resulted in the State approaching DWSD to assist Highland Park due to potentially significant public health issues in their drinking water system.

Other Southeast Communities are also demonstrating an inability to pay DWSD for services provided to their communities. In addition to Highland Park, six additional DWSD customer communities including Inkster and Hamtramck have increasing past due amounts. For example, the City of Inkster, which has recently received State funds "to keep the lights on", owes DWSD $1,595,844. Additionally, the City of Detroit which is undergoing financial review by the State has a general fund arrearage to DWSD of approximately $8,000,000.

It is quite likely DWSD will be asked to assist or manage some or all of the failing community's water and waste water systems because DWSD is uniquely positioned to do so. We recognize the critical role DWSD might have in these issues. However, it is quiet ironic that the State would seek DWSD's assistance through assuming responsibility for failing systems, and the economic risk that goes with that, at the same time the State would allow or facilitate DWSD's largest customer to exit the system. Add to this that the most significant outstanding debt owed DWSD are communities under State oversight or on the watch list. These actions in total are of significant detriment to DWSD, further hampering DWSD's ability to address investment necessary to effect long term compliance.

DWSD is requesting the State require distressed communities, and entities under State control, to pay for services provided and to consider water and sewer issues in its regional decision.

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BOARD OF WATER COMMISSIONERS

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AGENDA
MARCH 21, 2012

I.

II. **Not Responsive**

III. Karegnondi Water Authority (KWA)

- Flint – Water Customer (6% = $24.4 million)
- KWA – plans for water line
- Meeting with Mr. Brown and Mr. Wright

Not Responsive

From: Stibitz, Brom (Treasury)
Sent: Friday, April 26, 2013 4:51 PM
To: Muchmore, Dennis (GOV); Roberts, John (GOV); Dillon, Andy (Treasury)
Cc: Buhs, Caleb (GOV); Wurfel, Sara (GOV); Stanton, Terry A. (Treasury)
Subject: Flint/DWSD
Attachments: Kevyn Orr - April 26, 2013.pdf

Ed Kurtz and Kevyn Orr spoke this afternoon. Ed indicated that Flint will not accept the last offer from DWSD. His formal letter is attached.

I spoke with both (separately) after the call. They both indicated that they had a good conversation, and that they sincerely look forward to working with the other in good faith over the next couple years.

Kevyn indicated that he would follow up with Sue McCormack, and that his direction will be that there be no more talking to the press about the issue. Ed plans to stay silent on the deal until Monday, at which time he will address the issue in a matter of fact matter, and stay away from any divisive language regarding the issue.

Brom Stibitz
Senior Policy Advisor
Michigan Department of Treasury
517-373-3223
stibitzb@michigan.gov

CITY OF FLINT
OFFICE OF EMERGENCY MANAGER
EDWARD J. KURTZ

ELECTRONIC LETTER

April 26, 2013

Mr. Kevyn Orr
Emergency Manager
Coleman A. Young Municipal Center
2 Woodward Avenue, Suite 1126
Detroit, MI 48226

RE: DWSD Offer Evaluation

Dear Mr. Orr:

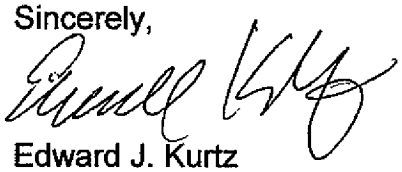
DWSD's offer of a Public/Public Partnership appears on the surface to offer significant cost of water savings, particularly in the near-term. However, further analysis exposes several flaws and weaknesses with the offer that reduce any potential appeal. First, the offer continues to use a grossly inaccurate estimate of the KWA operating and capital costs over the next thirty years. This one estimate is off by at least $800 million and perhaps by as much as $1 billion over that timeframe. And since DWSD claims "total savings to the Flint region are over $900 million", they have relied on this flawed estimate of KWA cost to make this claim. This offer also relies on a projection based on very little capital expenditures, no repairs on a system that is past its life expectancy, and annual rate increases of 4.7% over the next 30 years.

Secondly, and of much greater concern to Flint and GCDC, DWSD's offer of partnership would not so much foster a true collaborative relationship, but instead contractually transfers significant liability and risk for the next thirty years. DWSD's offer states the contract "would reflect more input into and control over system investments and cost variables." Unfortunately, these future investments and cost variables are not contained in the DWSD cost estimates. DWSD has included a fixed monthly charge to recover allocated capital revenue requirements, but this number is largely for past expenditures and debt costs, and does not include the significant future capital costs which will be required to maintain their nearly 50 year-old system. Once again quoting from the

DWSD April 24th offer letter under the Rate Increase Guarantee section – "DWSD proposes a guarantee that the capital portion of the Lake Huron System rate structure (the fixed monthly charge) will not increase for the life of the contract, unless additional capital investment is made in current and future Lake Huron System facilities." No one disputes that additional capital costs will be required that will total in the millions of dollars.

The DWSD offer is able to appear to offer savings on the surface since they have offloaded much of the above future capital costs. But to do so, DWSD has had to gloss over or simply ignore these large future expenditures. If these unaccounted for capital costs were to be calculated and added to the 30 year Flint and GCDC cost of water estimates, the DWSD offer becomes one in which the savings swing far to the advantage of the Karegnondi Water Authority.

Sincerely,



Edward J. Kurtz

ATTACHMENT 1

This offer has more risk involved than previous proposals. KWA would be responsible for between 20% and 100% of the repair costs on the pipeline and related assets from Port Huron

The numbers in the offer do not make sense. DWSD indicates savings of over $900 million while KWA's total cost over 30 years is less than $650 million.

Offer is based on very little capital improvements, no repairs and a 4.7% annual increase over the life of the contract.

There are no rate guarantees after the first year for capital, O & M or consumption.

KWA would be responsible for redundancy at a cost of $94.68 million per DWSD's estimate.

Does not guarantee a rate structure if system regionalizes or DWSD regionalizes, or Detroit enters bankruptcy.

Flint and Genesee County could have a connected waste/water system that serves all or part of five counties.

The potential for further consolidation of services between the city and the county i.e...water, wastewater, 911, etc,

This partnership will give Flint ownership of its own water supply system with real representation on its board of directors, making all treatment and delivery system decisions.

Flint's participation allows them to utilize its own water treatment facility that it has invested 50 million into and only currently exercises four days per year.

The investment gives us a new pipeline with a life expectancy of 75 years, as well as a 2nd product, untreated water. Under DWSD we would have no ownership after the end of the contract, and a new pipeline would still need to be built.

A 30 year contract with DWSD keeps us on a system that is 48 years old with a design life of 75 years. There will be necessary major investments or replacement costs that are not accounted for in this DWSD proposal.

KWA guarantees its capitol rate for 25 years. The capitol rate is 90 % of the total costs.

The commodity charge of $1.30 per mcf is mainly driven by energy costs. The whole operation will employ 5-7 people.

A thirty year contract with DWSD will lock Flint into hundreds of employees, labor costs and legacy costs.

The combination of low financing, labor and material make this the optimal time for this investment. At our meeting with the governor on April 19th Detroit acknowledged a second pipeline had to be built.

KWA could be used as a backup emergency supply for the existing 48 year old pipeline.

It brings a total economic package to our community i.e. We have the I-69 corridor, I-75 interchange, the rail system connected to Port Huron, and one of the busiest airports in the state. Owning our own water supply completes that package and keeps $25 million in our community.

Mr. Fausone's continued insistence on a 12 month timeline to calculate the termination fees leaves a question mark on the costs.

Construction Costs

- Rowe/AECOM/J & H $272,000,000
- TYJT $357,000,000

  Include: 10% bond coverage (dispelled)

  30% additional engineering (dispelled)

  Back-up power (dispelled)

- DWSD Starts at: $357,000,000 and adds:

  $134,630,000 for bond sizing

  $11,074,500 for bond sale cost

  For a total of: $503,274,500

  Plus need to collect $6,984,000 per year extra for bond coverage (20%)

Now we need:

20% bond coverage

30% additional engineering

38% bond sizing

We dispelled TYJT numbers; now DWSD starts with those numbers and adds more They add the same costs to Flint and GCDC construction costs (baseline figures and assumptions – KWA)

Baseline Figures and Assumptions - KWA Scenario

	DWSD Water Rate Structure			
	Fixed	Standby	Commodity	
2014	738,006	#N/A	13.01	Service ceases after 2016

Total Water Service Costs for Flint / Genesee County Drain Commission

Costs of Current Facilities / Operations

Same as DWSD scenario

Costs of Future Facilities / Operations

Financing Costs for New Projects	Flint WTP Improvements	GCDC WTP and Other	KWA System (a)
Project Cost	7,100,000	110,038,554	357,578,060
Bond Sizing Factor	37.65%	37.65%	37.65%
Additional Bond Proceeds Needed	2,670,000	41,430,000	134,630,000
Bond Sale Size	9,800,000	151,500,000	492,200,000
Bond Issuance Expenses - %	2.25%	2.25%	2.25%
Bond Issuance Expenses	220,500	3,408,800	11,074,500
Finance Rate	5.00%	5.00%	5.00%
Finance Term	25	25	25
Bond Reserve Size - %	10.00%	10.00%	10.00%
Bond Reserve Size	980,000	15,150,000	49,220,000
Capitalized Interest term - years	3	3	3
Capitalized Interest	1,470,000	22,725,000	73,830,000
Net Bond Proceeds	7,129,500	110,216,200	358,075,500
Annual Debt Service Payment	695,300	10,749,300	34,922,800
Debt Service Coverage Requirement	120.00%	120.00%	120.00%
Annual Debt Service Coverage	139,100	2,149,900	6,984,600
Replacement?	144,900	2,251,600	(b)
Total Capital Financing Revenue Req't	979,300	15,150,800	41,907,400
Operating Cost Estimate Starting in FY 2017	8,270,000	1,819,900	(c)

(a) excludes raw water reservoir
(b) assume no annual replacement required for pipeline
(c) $1.30 per Mcf inflated to 2017

From: Scorsone, Eric <scorsone@anr.msu.edu>
Sent: Friday, April 19, 2013 8:23 AM
To: Muchmore, Dennis (GOV)
Cc: Roberts, John (GOV); Rustem, William (GOV)
Subject: Re: Detroit

Dennis, Bill and John

For what it is worth, I would look at having flint spilt off the water system into some kind of regional authority and separate the finances from the general city if you are going to move forward with kiragani. The city has a propensity to use the water system as a cash cow and it will help them avoid that problem in the future.

Thanks

Eric

Dr. Eric Scorsone
Michigan State University

On Apr 17, 2013, at 5:44 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

> Anytime
>
> -----Original Message-----
> From: Scorsone, Eric [mailto:scorsone@anr.msu.edu]
> Sent: Wednesday, April 17, 2013 4:24 PM
> To: Roberts, John (GOV); Muchmore, Dennis (GOV); Rustem, William (GOV)
> Subject: Detroit
>
> Good Afternoon,
>

Not Responsive

> Thanks
>
> Eric
>
> Dr. Eric Scorsone
> Faculty Member and Workgroup Leader
> Department of Agricultural, Food and Resource Economics and MSU Extension Michigan State University
> 202 Agriculture Hall
> East Lansing, MI 48824-1039
>
> (517)353-9460
> scorsone@msu.edu
>
> _____

> From: Scorsone, Eric
> Sent: Tuesday, January 22, 2013 7:50 PM
> To: Roberts, John (GOV); muchmored@michigan.gov; Rustem, William (GOV)
> Subject: bankruptcy
>
> Good Evening
>
>

Not Responsive

>
>
> Regards,
>
>
>
> Eric
>
>
>
> Dr. Eric Scorsone
> Faculty Member and Workgroup Leader
> Department of Agricultural, Food and Resource Economics and MSU Extension Michigan State University
> 202 Agriculture Hall
> East Lansing, MI 48824-1039
>
> (517)353-9460
> scorsone@msu.edu

From: Scorsone, Eric <scorsone@anr.msu.edu>
Sent: Tuesday, April 30, 2013 6:36 AM
To: Muchmore, Dennis (GOV)
Cc: Rustem, William (GOV)
Subject: RE: Detroit

Dennis and Bill,

Not Responsive

Thanks

Eric

Dr. Eric Scorsone
Faculty Member and Workgroup Leader
Department of Agricultural, Food and Resource Economics and MSU Extension Michigan State University
202 Agriculture Hall
East Lansing, MI 48824-1039

(517)353-9460
scorsone@msu.edu

From: Scorsone, Eric
Sent: Friday, April 19, 2013 8:22 AM
To: Muchmore, Dennis (GOV)
Cc: Roberts, John (GOV); Rustem, William (GOV)
Subject: Re: Detroit

Dennis, Bill and John

For what it is worth, I would look at having flint spilt off the water system into some kind of regional authority and separate the finances from the general city if you are going to move forward with kiragani. The city has a propensity to use the water system as a cash cow and it will help them avoid that problem in the future.

Thanks

Eric

Dr. Eric Scorsone
Michigan State University

On Apr 17, 2013, at 5:44 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

Not Responsive

>
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Not Responsive

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> East Lansing, MI 48824-1039
>
> (517)353-9460
> scorsone@msu.edu

From: Roberts, John (GOV)
Sent: Tuesday, February 12, 2013 5:35 PM
To: Muchmore, Dennis (GOV)
Subject: FW: Flint letters
Attachments: Letter to Gov Snyder from Flint City Council.pdf; Flint_CC_Responsedraft5.doc

Importance: High

Are you ok with this?

From: Wurfel, Sara (GOV)
Sent: Tuesday, February 12, 2013 5:19 PM
To: Rexford, Tori (GOV)
Cc: Roberts, John (GOV)
Subject: Flint letters
Importance: High

Tori –

Per our conversation earlier, attached are two items to be included in the Governor's briefing packet this evening. They're both on the Flint Public Safety Administrator/Detroit Water & Sewer joint employment issue.

One is the original letter to the Governor that came from the Flint City Council.

The other is the proposed response that's been vetted and approved from treasury team.

Also included a few of the latest news articles on the matter.

Thanks!

Flint requests ex-public safety administrator Barnett Jones' Detroit job records
http://www.mlive.com/news/flint/index.ssf/2013/01/flint_requests_barnett_jones_d.html

State Treasury changes policy after ex-Flint public safety administrator Barnett Jones caught with second job
http://www.mlive.com/news/flint/index.ssf/2013/01/state_changes_contract_rules_a.html

More than moonlighting involved in Flint's public safety administrator debate, MLive commenters say
http://www.mlive.com/news/flint/index.ssf/2013/01/other_issues_surround_flints_p.html

Sara Wurfel, APR
Press Secretary | Executive Office of Governor Rick Snyder
wurfels@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@SaraLW

OFFICE OF THE CITY COUNCIL

Januarv 16. 2013

The Hon. Rick Snyder, Governor
State of Michigan
George W. Romney Building
111 S. Capitol Ave.
Lansing, Michigan 48933

Dear Gov. Snyder:

The Flint City Council is requesting an investigation into a situation that, on the face of it, appears unethical at best and egregious at worst. We're talking about the recent disclosure that Barnett Jones, former Police Chief of Ann Arbor, was working two full-time jobs – one as Public Safety Administrator for the City of Flint and one as Chief Security and Integrity Officer for the Detroit Water and Sewerage Department – the very department that Flint is negotiating with for future drinking water.

By way of background, on at least two occasions, you and representatives from the State have been in Flint to address your commitment to fighting crime and dealing with the crime problems in our community. At your recommendation, Emergency Manager Michael Brown hired Mr. Jones to oversee the police and fire departments. Since his hiring, the City of Flint has had 66 homicides in 2012, and four in the first 12 days of January 2013. While Mr. Jones was hired to help, it appears that he was more concerned about having two well-paid jobs at a time when our crime statistics continue to rise.

Many on the Council and in the community were stunned when Mr. Jones was hired since the police department already had a Chief – Alvern Lock – and because the city was said to be in such financial distress that your staff ordered an emergency financial takeover. Mr. Brown answered those questions with assurances that Mr. Jones would be instrumental in developing an effective public safety plan to help deal with the high numbers of crimes per capita that Flint records each year.

Still, questions lingered, especially since he was paid higher than any other official (outside of Mr. Brown) in recent memory, since he was seldom seen by employees in his own departments, and especially when Flint tied the record for the most homicides ever last year.

It is our feeling that the time has come for you and the State Treasurer's Office to revisit and review the Emergency Manager and the direction that the EM has taken Flint over the past 13 months. It is clear that his direction has not addressed crime, the city's financial situation has not improved and the deficit has more than doubled since his appointment.

Moreover, we have witnessed the following:

1101 S. SAGINAW ST. FLINT, MICHIGAN 48502 MUNICIPAL CENTER (810) 744-7418 FAX (810) 766-7032 TDD (810) 766-7120

- A stagnant economy
- Hardship that the increased taxes and fees have caused our citizens, particularly the elderly
- Loss of population due to those same increases in taxes and fees
- Continued loss of population loss due to crime and fear of crime

All of the above have implications in terms of our ability to attract and retain industry in the City of Flint.

Clearly, we are on the wrong path, and we need to review options other than an Emergency Manager to the extent that a Consent Agreement between the elected officials and the State may better serve our community.

It is time that we look at this very seriously and that you review this prior to your decision to reappoint/appoint an Emergency Manager before the end of March.

Lastly, we kindly request that you attend a City Council meeting where these and other questions can be posed to you by members of the Council and the community. If that is not possible, we ask that you please respond to these questions in writing.

We look forward to hearing from you soon.

Sincerely,

Scott Kincaid, President
Flint City Council

Bryant W. Nolden, Vice President
Flint City Council

cc: Andy Dillon, State Treasurer
Roger Fraser, Deputy Treasurer

SK:jj

1101 S. SAGINAW ST. FLINT, MICHIGAN 48502 MUNICIPAL CENTER (810) 744-7418 FAX (810) 766-7032 TDD (810) 766-7120

From: Dillon, Andy (Treasury)
Sent: Thursday, February 28, 2013 6:58 PM
To: Muchmore, Dennis (GOV)
Cc: Stibitz, Brom (Treasury); Hichez, Amy (Treasury)
Subject: Re: Flint water bills

Dennis, we will get back to you on this.

Sent from my iPad

On Feb 28, 2013, at 6:55 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

> Just another example.
>
> ---
>
> **From:** Corrigan, Maura (DHS)
> **Sent:** Thursday, February 21, 2013 1:00 PM
> **To:** Muchmore, Dennis (GOV)
> **Cc:** Berger, Duane (DHS); Yager, Steve (DHS)
> **Subject:** FW: Flint water bills
>
> Can we do anything at all about this gouging?
>
> ---
>
> **From:** Yager, Steve (DHS)
> **Sent:** Thursday, February 21, 2013 12:00 PM
> **To:** Berger, Duane (DHS); Corrigan, Maura (DHS)
> **Cc:** Beurer, Terrence (DHS)
> **Subject:** FW: Flint water bills
>
> See below----is this something we might mention to Dennis M. ? This is a legitimate concern in my estimation.
>
> ---
>
> **From:** Rauch, Randy (DHS)
> **Sent:** Wednesday, February 20, 2013 3:18 PM
> **To:** Yager, Steve (DHS)
> **Subject:** Flint water bills

Steve,

I am wondering, if somehow, I could send a letter to the Governor regarding the water bills in the City of Flint. Effective 3-1-13, the City will now require a $350 service fee for turning on water to a home. Shut off accounts and new water applications. Plus a $75 deposit on top of that.

The fee was $100. This is on top of a change that took effect just a few months ago of increasing the water fee to $53 per month just to have water in the home. Then the usage is on top of that. This is the city managers way of trying to balance their budget.

People in Flint cannot afford this. DHS cannot afford this. It is hurting our SER funding and my CP/CP funding. People in Flint cannot live with these rates. I feel somehow the Governor needs to hear about this.

I have asked numerous times to meet with the City manager with no luck. My own Board member is an advisor to the city manager and I have asked him to set up a meeting and he has not.

What can we do to get the Governor's ear?

Randy Rauch

Child Welfare Director

Genesee Co. DHS

810-760-2648

From: Stibitz, Brom (Treasury)
Sent: Monday, March 04, 2013 4:00 PM
To: Muchmore, Dennis (GOV)
Cc: Dillon, Andy (Treasury)
Subject: Flint Water Bills
Attachments: Water Forum - Final.ppt; WATER RATES deposits.doc

Follow Up Flag: Follow up
Flag Status: Flagged

Dennis,

There is some information attached on the Flint water issue you asked us about. I summarize a few of the key points:

- The water system has been running at deficits for years. When the previous EFM left the City in 2004, the water system has a reserve of approximately $60 million. When Mike Brown was appointed, this had turned into a $20 million deficit due to years of not passing along to consumers the rate increases of over 10% hitting the system from DWSD. Slides 5 & 6 of the attached power point show this pretty dramatically.
- Substantial increases over the past few years are an attempt to reflect the actual costs of running the system.
- Another concern raised by DHS was the increase in the deposit for rental properties. This was necessary because renters paid the previous $100 deposit, then racked up water bills in excess of this amount and walked away. Of the affidavits currently out there, 82% are past due. I would also note that this is not mandatory, it is only required if a landlord is not willing to put the water bill in their name.
- The bottom line is that they realize it is an issue, but the General Fund doesn't have the money to run general City operations, much less subsidize water rates.

The two page word document (attached) provided by the EFM gives you a good overview of what is going on. They believe that a switch to KWA is part of the solution for high water rates in the City.

Brom

City of Flint

Water Forum

5/31/2012

City Of Flint Water Forum

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Frequently Asked Questions 4

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Improvements for City of Flint Water System 13

City Of Flint Water History Facts

Current Treatment Plant was put into service in 1954.

Current 72" main pipeline was completed in 1970.

Flint signed a 30 year contract with Detroit Water and Sewer Department in the mid 1960's.

The contract with DWSD has expired and we are currently operating on a yearly extension.

In 2006 Flint completed a $48,000,000 upgrade of the existing Water Plant (required by the MDEQ & for backup only).

Flint's Water & Sewer System is approximately a $300,000,000 Enterprise.

Flint's Water & Sewer System is designed to deliver water to over 200,000 people with over 1,500 miles of infrastructure.

Flint's most recent census count shows a population of approximately 102,000 in 2010.

Flint's census population in 2000 was approximately 124,000.

The water system had over 45,000 customers in June of 1999.

The water system had just over 36,000 customers by June 2011.

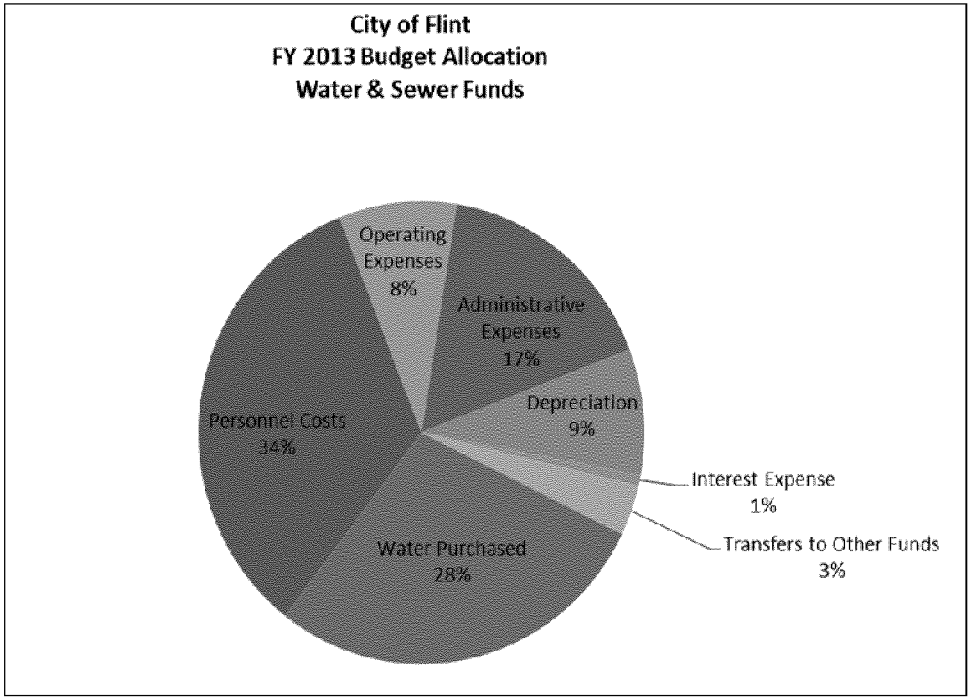
The "Fixed Costs" that must be covered to maintain the system and deliver quality water have increased over time.

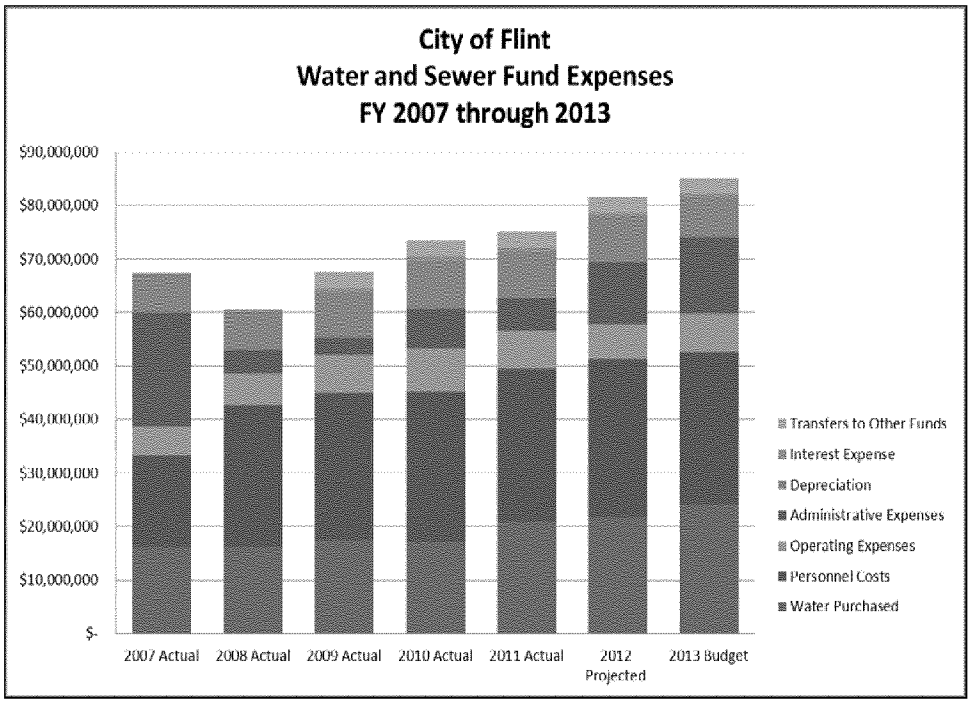
City Of Flint
Most Frequently Asked Questions about Water

- ❑ Why are the water rates so high ?
- ❑ How does my water bill work (Explanation of charges) ?
- ❑ Why do others in the area pay less for the same amount of water ?
- ❑ Where has all of the water and sewer fund money gone ?
- ❑ What do I do if I think my bill is incorrect ?
- ❑ What effect does leakage or theft have on my bill ?
- ❑ How can I report water theft ?
- ❑ Why don't we go back to using the Flint River like we once did ?

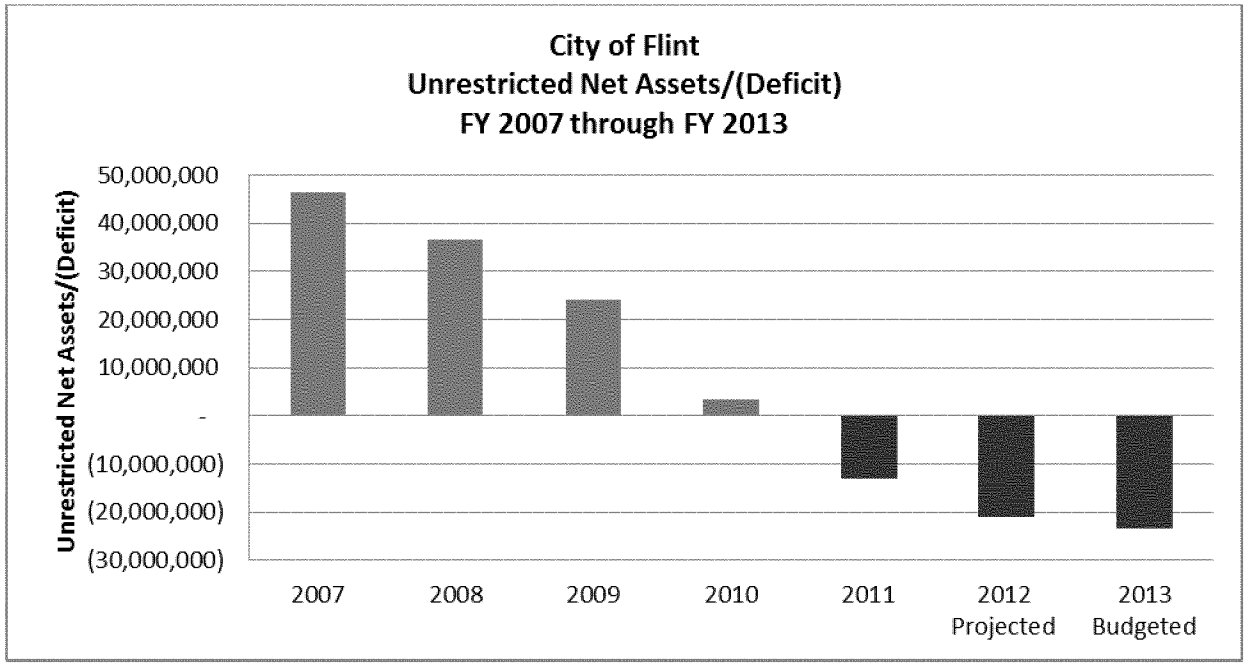
City of Flint

Budget Allocation and Fund Expenses





	Audited						
	2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Projected	2013 Budget
Operating Revenues	51,090,679	51,100,332	51,906,553	47,926,589	54,385,644	67,983,044	81,734,552
Other Revenues	2,627,939	3,274,450	1,442,383	764,886	68,645	126,670	455,867
Annual Revenues	53,718,618	54,374,782	53,348,936	48,691,475	54,454,289	68,109,714	82,190,419
Water Purchased	16,052,006	16,297,871	17,421,663	17,103,752	20,919,987	21,756,787	24,031,417
Personnel Costs	17,292,444	26,302,590	27,591,206	28,149,946	28,618,817	29,640,499	28,546,350
Operating Expenses	5,355,638	6,145,119	6,950,534	8,146,390	6,917,964	6,420,260	7,259,290
Administrative Expenses	21,300,900	4,229,382	3,403,231	7,327,630	6,221,627	11,465,462	14,140,047
Depreciation	7,217,142	7,132,870	8,364,022	8,854,889	8,689,809	8,615,000	7,500,000
Interest Expense	86,632	485,499	868,031	812,270	754,890	705,150	644,314
Transfers to Other Funds	-	-	2,990,000	2,990,000	2,990,000	2,990,000	2,990,000
Annual Expenses	67,304,762	60,593,331	67,588,687	73,384,877	75,113,094	81,593,158	85,111,418



	2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Projected	2013 Budget
Revenues	53,718,618	54,374,782	53,348,936	48,691,475	54,454,289	68,109,714	82,190,419
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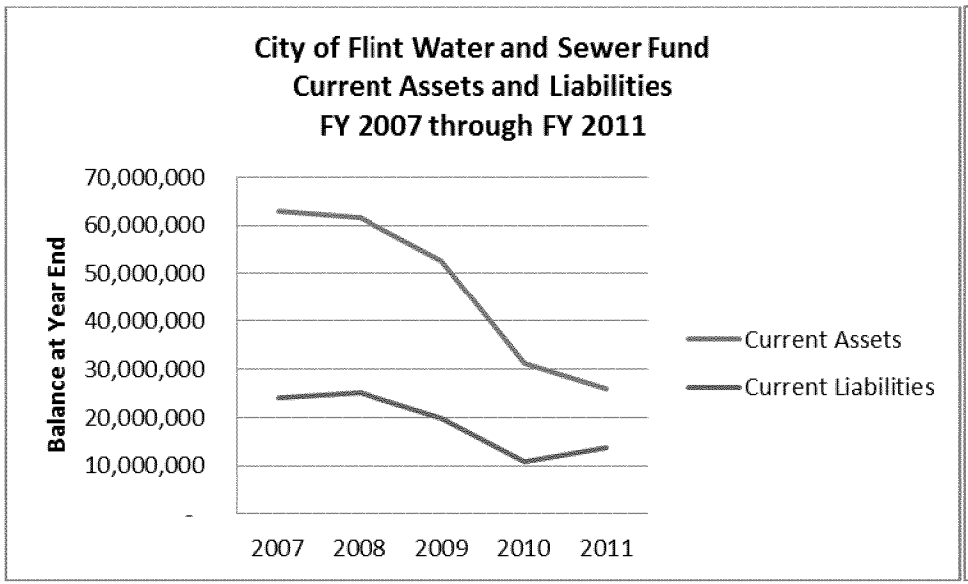
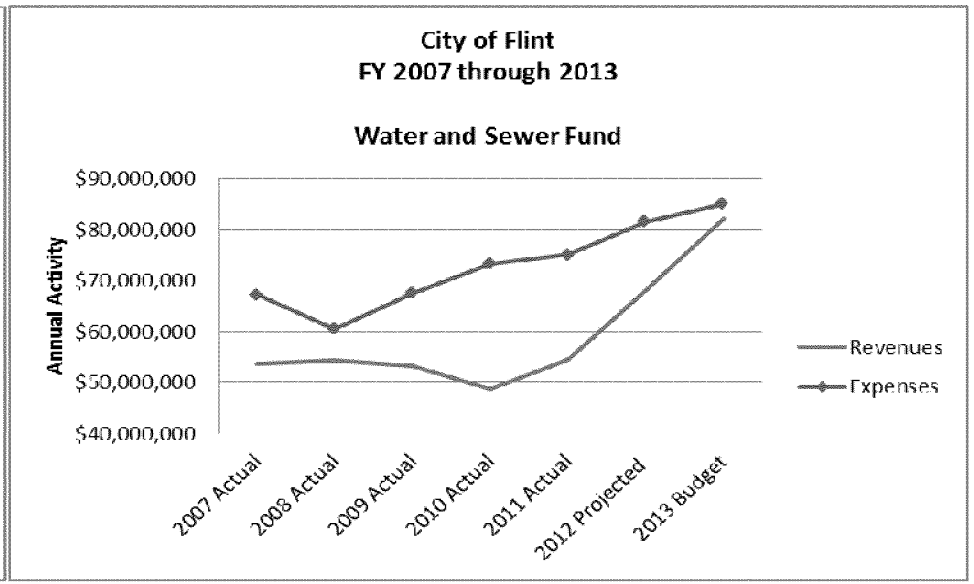
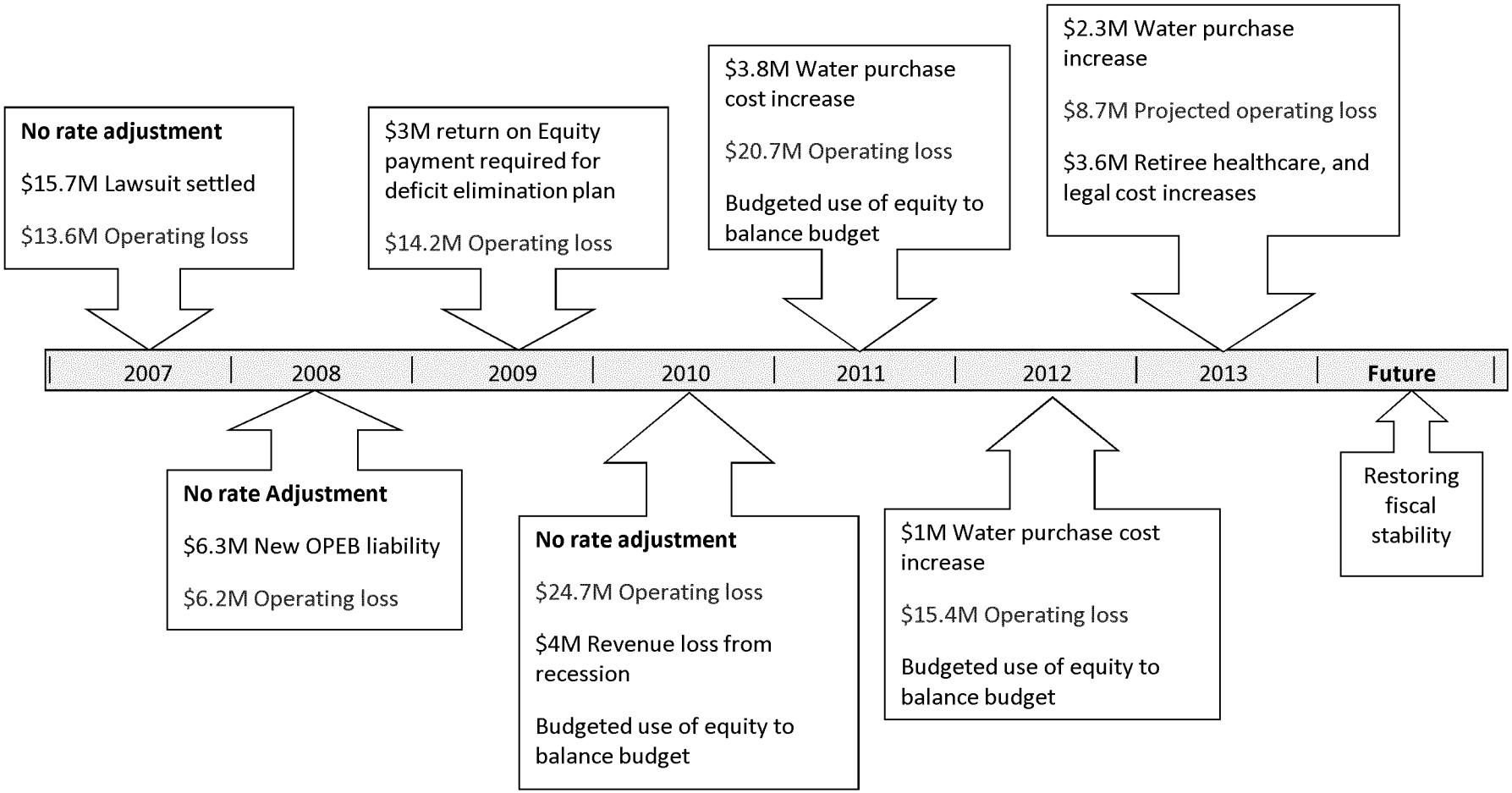




City of Flint

Recent Timeline of Water and Sewer Funds

FY 2007 through 2013



City of Flint- Water and Sewer System Additional Asset / Revenue Data

The average annual residential water sewer bill in FY2005 was less than $700 annually
The average annual residential water/ sewer bill in FY13 will be nearly $1,700

Expenses have exceeded revenues every year since 2006:

FISCAL YEAR	Rate Base	Revenues	Expenses	Revenues Minus Expenses	Unreserved System Equity	FACTORS IMPACTING SOLVENCY			COST IMPACT
2006	2005	$55,204,242	$50,933,792	**$4,270,450**	**$60,340,013**				
									(millions)
2007	2005	$53,856,857	$67,442,993	($13,586,136)	$46,399,452	No rate adjustment			??
						$15.7 million lawsuit settlement	15.7	0	$15.7
2008	2005	$54,374,781	$60,593,331	($6,218,550)	$36,482,488	No rate adjustment			??
						OPEB liabilities added	3.6	2.7	$6.3
2009	2009	$53,488,463	$67,728,218	($14,239,755)	$24,023,065	ROE payment added as part of City [	1.9	1.1	$3.0
2010	2009	$48,820,329	$73,513,725	($24,693,396)	$3,531,768	No rate adjustment			??
						Use of retained earnings budgeted	12.5	0.5	$13.0
						Revenue lost due to recession	2	2	$4.0
2011	2011	$54,527,079	$75,185,879	($20,658,800)	($12,866,607)	Use of retained earnings budgeted	7.1	3.5	$10.6
	2011					Water purchase cost increase	0	3.8	$3.8
2012		$68,279,187	$83,682,840	($15,403,653)	($20,884,122)	Use of retained earnings budgeted	5.1	0	$5.1
						Water purchase cost increase	0	0.8	$0.8
2013	2013	$82,220,420	$90,970,420	**($8,750,000)**	**($23,379,690)**	Water purchase cost increase	0	2.3	$2.3
						RHC/Legal/Admin Cost Allocation	2.1	1.5	$3.6
				($99,279,840)					$68.2

Calculation of Water and Sewer Rates for FY13 Budget

March, 2012:

	Expense Projection Based on FY12 Costs	Revenue Projection Based on FY12 Receipts	Difference Between Projected Revenues and Expenses	Rate Increase Necessary To Close Gap
Water	$49.9	$44.4	-$5.5	12.4%
Sewer	$31.0	$21.4	-$9.6	44.9%
TOTAL	$80.9	$65.8	-$15.1	22.9%

CITY of FLINT, MICHIGAN
WATER &/OR SEWER BILL

Service at: 5810 BALDWIN BLVD

TREASURER
CITY OF FLINT
P.O. BOX 1950
FLINT, MI 48501

PRESORTED
FIRST CLASS MAIL
US POSTAGE PAID
CITY OF FLINT

3419 Active

Seq=3138

ACCOUNT NUMBER	DUE DATE
BALD-005810-0000-01	02/28/2012

NET AMOUNT DUE
147.85

RETURN THIS STUB WITH YOUR PAYMENT

**AUTO [redacted]

00000376810000014785022820120000149137706

KEEP THIS PORTION FOR YOUR RECORDS

LAST READ/DATE/TYPE		NEW READ/DATE/TYPE		CONS	SERVICE	CHARGE
361	01/05/2012 A	363	02/03/2012 A	2	Sewer Non-metered	6.62
					Sewer Svc Chrg	22.07
					Water	13.36
					Water Svc Chrg	19.36

Prev. Balance	161.08
Payments	-75.00
Adjustments	0.00
Current Penalty	0.36
New Charges	61.41
Total Due	147.85
Due Date	02/28/2012

ACCOUNT: BALD-005810-0000-01 SERVICE AT: 5810 BALDWIN BLVD

PENALTY ASSESSED 30 DAYS AFTER DUE DATE

CITY OF FLINT
DEPARTMENT OF FINANCE

Customer Service Center

Dayne Walling
Mayor

Douglas Bingaman
Treasurer

CITY OF FLINT
WATER NON-PAYMENT TURN-OFF POLICY

1. Water services to any customer may be shut off if the account is not paid until after 30 days after the due date. (City ordinance 46-52 (h))

2. Non-payment turn-offs are done only Monday through Thursday. The Customer Service Center does not schedule non-payment turn-offs on Fridays, Saturdays, Sundays, or most recognized holidays.

3. Illegal usage, broken payment arrangements and NSF (non-sufficient funds) turn-offs are done at any time without additional notice.

4. Turn-off notices are mailed to delinquent customers fifteen (15) days before actual turn-off.

5. The water customer is responsible for maintenance of all plumbing in the premises including connection to City water mains or sewer lines.

6. If a customer disputes a water bill and is unable to resolve the issue with Customer Service personnel, the customer may request an administrative review. Further information on any water account may be obtained by calling (810) 766-7015 or visiting the Customer Service Center at 1st Floor, City Hall, 1101 S. Saginaw St.

Preliminary Options for Future City of Flint Water Sources

Consider a New Negotiated Contract with Detroit Water and Sewer Department

PRO'S	CON'S
No upfront capital costs	Lack of control over new / fixed changes
Possibility to negotiate a lower rate	Past practices
Ability to "Blend" water sources to further control costs	

Consider a Contract with the Karegnondi Water Authority

PRO'S	CON'S
Voting member of KWA board	Capital cost (debt service)
Ability to "Blend" water sources to further control costs	Uncertainty of final costs
Raw water is an asset for attracting new buisnesses	

Blended Use of the Flint River

PRO'S	CON'S
Helps control cost of water	

*** CURRENTLY NO DECISIONS HAVE BEEN MADE REGARDING THE FUTURE WATER SOURCE

Improvements for City of Flint Water System

Reduce Leakage

- **Finalize a Preventative Maintenance Plan**
  - (Planning started in January 2012, requires funding, … part of Operational Costs)
  - Will help identify repair area's

- **Reduce water theft**

- **Replace water meters**
  - We currently have an eighteen month plan to replace all meters with more efficient "*Smart Meters*"

- **Encourage routine household checks**
  - "Faulty" toilets are a significant reason for household water loss. and unexpected larger bills.

Other Leakage concerns

- ✓ Transmission Loss
- ✓ Fire Hydrants
- ✓ Incorrect water bills
- ✓ Non-Payment

City of Flint Water Fund

Proprietary Funds Revenues, Expenditures, and Changes in Net Assets
Fiscal Year Ended June 30

	2007	2008	2009	2010	2011	2012 Projected	2013 Budget
Current Assets	17,248,277	16,155,282	13,213,411	9,092,746	9,295,966		
Current Liabilities	7,053,131	7,039,015	6,796,178	8,287,409	11,736,286		
Capital Assets, net of accumulated depreciation	34,453,626	57,264,585	55,977,802	54,419,070	52,253,233		
Revenue Bonds, long-term portion	33,759,432	31,804,432	30,156,259	28,116,259	25,925,336		
Unrestricted Net Assets/(Deficit)	12,183,661	8,396,496	2,694,056	(5,795,973)	(12,443,265)	(13,237,665)	(12,733,233)

City of Flint Sewer Fund

Proprietary Funds Revenues, Expenditures, and Changes in Net Assets
Fiscal Year Ended June 30

	2007	2008	2009	2010	2011	2012 Projected	2013 Budget
Current Assets	45,805,754	45,515,711	39,299,954	22,199,959	16,496,427		
Current Liabilities	17,117,109	18,000,968	12,928,688	2,570,710	1,894,249		
Capital Assets, net of accumulated depreciation	76,913,051	73,794,673	74,719,675	70,200,627	65,736,675		
Revenue Bonds, long-term portion	-	-	-	-	-		
Unrestricted Net Assets/(Deficit)	34,215,792	28,085,991	21,329,011	9,327,738	(423,349)	(7,646,457)	(10,646,457)

Water and Sewer Combined

	2007	2008	2009	2010	2011	2012 Projected	2013 Budgeted
Current Assets	63,054,031	61,670,993	52,513,365	31,292,705	25,792,393		
Current Liabilities	24,170,240	25,039,983	19,724,866	10,858,119	13,630,535		

Response to Treasury regarding water rates, etc.

The cost of water and sewer in the City of Flint has become one of the most vexing issues facing the Emergency Financial Manager. When the Emergency Manager was appointed in December 2011 the water system had a $20 million deficit. In order to address this deficit the EM was forced to increase water and sewer rates by over a combined 120% in the past 18 months.

When the previous EFM left the City in 2004, the water system has a reserve of approximately $60 million. In the intervening years several things occurred: for three of five years (2007-2011) no rate increases were passed along to customers even though Detroit charged increases of over 10% per year; in the years when increases were passed along those amounts did not equal the actual cost of the system; the City chose to use the equity built up in the Water and Sewer funds until that was no longer available; a large lawsuit was settled; the City must pay for the $48 million MDEQ upgrades required at the Water Treatment Plant; and unbilled or unpaid water and sewer charges increased significantly.

In the past 18 months water and sewer rates have been increased to reflect the actual costs to operate the water and sewer system. Major leaks in the distribution system have been repaired. Unpaid water and sewer usage is now being addressed and the water affidavit process is part of this problem.

The City of Flint currently allows landlords to put the water and sewer billing in the name of the renter. This affidavit process holds the landlord harmless for any water costs. The deposit for the affidavit has been set at $100, which is the lowest in the County. The deposit fees in the County range from a low of $100 to a high of $500. The City is raising its rate to $350, which puts us about in the middle of the range. Depending on usage, this will cover 60 to 90 days' water charges and reduce the amount of uncollected billing. Keep in mind, any water not paid for is eventually charged to those who do pay through increased rates.

Because the deposit is so low in relation to the current charges, renters quickly owe more than the deposit, and find it easier to simply walk away from the rental and forfeit the deposit. This results in the City being on the hook for the unpaid bills. Currently there are 4,893 affidavits, and 4029 of them (82%) past due. This facctor alone totals to just under $3 million. In addition, when the renter walks away, the City has no way of knowing that the property is vacant. Many times the landlord rents the property again, without filing an affidavit, and the water continues to be charged to the former renter, again adding uncollected bills to the City. In the past the collection rate for past due accounts, when turned over to a collection agency, has been about 3% on average. Keep in mind that this is a deposit, not a fee, and can be refunded when the renter leaves the property. Also, the landlord can avoid the renter's deposit requirement by keeping the water and sewer billing in his name.

The City is also studying the potential to hold the landlord accountable for the water charges under certain conditions, such as failure to notify the City when a renter leaves and then renting the property again without filiing a new affidavit.

The City recognizes that the high cost of water is a factor which is causing low income residents to choose to leave the City and the increase in the deposit fee might accelerate that choice. However, many of the surrounding communities charge a higher deposit than does the City o Flint. Renters are leaving the City because they can get better housing for less money, live in safer neighborhoods with better schools, have their water charges decrease by about half, and have their insurance rates reduced by approximately 50%.

Water and sewer costs have resulted in about 8,000 current customers to be more than 60 days past due. Many are senior citizens who have lived in Flint their entire life, paid their taxes, etc. and now find themselves unable to pay their water bill. This concerns the City more than the issue of deposits. We have put in place for this year the ability for citizens to direct a part of their city tax refund to help people with their water bills, and we are reviewing other options as well as scheduled meetings with agencies involved in helping low income people with their bills.

We further recognize that we have staffing issues and water theft to address. The City is able to complete about 120 water shut-offs per week. At that rate we can not keep up with delinquent account shut-offs. The city also reconginzes that water theft through meter by-pass or unauthorized turn-on must be resolved.

Ultimately, the City must find a way to hold down future increases in the cost of water, to bring them more in line with the Genesee County water customers. To this end the City has recommended to Treasury, that the City leave the Detroit Water System and join KWA with Genesee County, Lapeer and Sanilac Counties and the City of Lapeer. We believe this is the most significant long term factor in stabilizing costs to the water customers in the City of Flint.

From: Dillon, Andy (Treasury)
Sent: Tuesday, March 26, 2013 8:04 AM
To: Muchmore, Dennis (GOV); Rustem, William (GOV); Roberts, John (GOV)
Subject: Fwd: Flint Water

Sent from my iPad

Begin forwarded message:

> **From:** "Saxton, Thomas (Treasury)" <SaxtonT@michigan.gov>
> **Date:** March 26, 2013 7:57:47 AM EDT
> **To:** "Stibitz, Brom (Treasury)" <StibitzB@michigan.gov>, "Dillon, Andy (Treasury)" <DillonA2@michigan.gov>
> **Subject: Flint Water**
>
> Fyi... in case you missed it I heard about this on the news this a.m.
>
> Flint City Council approves resolution to buy water from Karegnondi, state approval still needed
> By Dominic Adams | dadams5@mlive.com
> on March 25, 2013 at 10:45 PM, updated March 26, 2013 at 1:28 AM
> FLINT, MI – Flint is one step closer to getting its water from Lake Huron as part of the Karegnondi Water Authority.
> The vote, approved 7-1 at the Flint City Council meeting Monday, March 25, may have set in motion the end to Flint paying to get its water from Detroit.
> Under the proposal, Flint would get 16 million gallons per day of raw water from Lake Huron, pipe it to Flint for treatment and then sell it to customers throughout the city. Another 2 million gallons per day would come from the Flint River and will be treated in Flint.
> Mayor Dayne Walling said the Department of Environmental Quality must approve Flint's getting 2 million gallons per day from the Flint River.
> Tuesday's meeting followed weeks of discussions and special meetings surrounding the resolution.
> "We got there," Councilman Joshua Freeman said. "That's the important thing."
> There were more than 50 people at Monday's meeting.
> "Going with Karegnondi is the best decision. We have no opinion on the economics of the decision," said Rebecca Fedewa, Flint River Watershed Coalition executive director. "If we start drawing water out of the Flint River, we are at risk of having to start releasing water from our reservoirs."
> Genesee County Drain Commissioner Jeff Wright said the decision must still be approved by a county water and waste advisory board. The KWA board will then be reconvened for final approval.
> Wright said construction could start in May.
> State treasury officials still must approve the city council's move because Flint has an emergency financial manager. All expenditures over $50,000 must be approved.
> Genesee County Drain Commissioner Jeff Wright has said that Flint would pay roughly $6.4 million annually for water service if it joined the pipeline – a nearly $4 million savings on what it

pays Detroit for water.
Walling previously said the city would save $19 million over eight years by getting water from the KWA.
"It's a historic night in the City of Flint," Walling said. "The savings will be less with the capacity level approved by city council because there will be increased treatment cost for the river water."
He said the DEQ told the city it needed to get 18 million gallons per day or there would have to be additional work done at Flint's water plant.
Flint's water plant and the Flint River is currently the backup for Flint and Genesee County, however, the plant only operates four times per year.
Councilman Bryant Nolden was the lone dissenting vote.
"It was a protest vote," Nolden said. "I knew they had enough votes. I just feel like the Flint River is our best option."
Karengnondi is the regional water authority that includes Genesee, Lapeer and Sanilac counties and the cities of Flint and Lapeer.
Flint is the second municipality, behind Genesee County, to officially decide to purchase raw water through the KWA. Lapeer city officials said they intend to purchase water, but an agreement has been finalized.
Dominic Adams is a reporter for MLive-Flint Journal. Contact him at dadams5@mlive.com or 810-241-8803. Follow him on Twitter, Facebook or Google+.

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From: Stibitz, Brom (Treasury)
Sent: Thursday, April 04, 2013 6:29 PM
To: Muchmore, Dennis (GOV)
Cc: Dillon, Andy (Treasury)
Subject: Re: Flint and DWSD- IMPORTANT

Matt Schenk

On Apr 4, 2013, at 6:27 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

> Who did you talk to at DWSD? We'll need to be able to prove we went the extra mile on this one. How soon do we tell Orr?
>
> ---
>
> **From:** Stibitz, Brom (Treasury)
> **Sent:** Thursday, April 04, 2013 6:27 PM
> **To:** Muchmore, Dennis (GOV)
> **Cc:** Dillon, Andy (Treasury)
> **Subject:** Re: Flint and DWSD- IMPORTANT
>
> We haven't heard anything from them, other than a couple letters of opposition. I have asked Mike Brown to let me know if they do hear anything.
>
> On Apr 4, 2013, at 6:11 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:
>
> > I assume that DWSD hasn't talked with Flint yet and presented a last chance proposal. Have you heard anything from your conversations with them last week? If Andy is back on Monday, that will be ten days since you talked with them about the potential loss of a big customer. I assume Andy can wait until the 10th or so? That would have given them nearly two weeks to make an effort and protect us from as much criticism.
> >
> > Dennis C. Muchmore
> > Chief of Staff
> > Governor Rick Snyder, Michigan
> > **PPI**

From: Stibitz, Brom (Treasury)
Sent: Thursday, April 04, 2013 7:44 PM
To: Muchmore, Dennis (GOV)
Cc: Dillon, Andy (Treasury)
Subject: Re: Flint and DWSD- IMPORTANT

Your call on who does it. But now that you bring it up we should probably let him know right away. I keep "forgetting" that DWSD is under his control now.

On Apr 4, 2013, at 7:27 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

> Thanks. When should I tell Orr or do you want to?
>
> ---
>
> **From:** Stibitz, Brom (Treasury)
> **Sent:** Thursday, April 04, 2013 6:29 PM
> **To:** Muchmore, Dennis (GOV)
> **Cc:** Dillon, Andy (Treasury)
> **Subject:** Re: Flint and DWSD- IMPORTANT
>
> Matt Schenk
>
> On Apr 4, 2013, at 6:27 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:
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> > **From:** Stibitz, Brom (Treasury)
> > **Sent:** Thursday, April 04, 2013 6:27 PM
> > **To:** Muchmore, Dennis (GOV)
> > **Cc:** Dillon, Andy (Treasury)
> > **Subject:** Re: Flint and DWSD- IMPORTANT
> >
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> > >
> > > Dennis C. Muchmore
> > > Chief of Staff
> > > Governor Rick Snyder, Michigan
> > > 517-241-5601

From: Stibitz, Brom (Treasury)
Sent: Thursday, April 04, 2013 8:48 PM
To: Muchmore, Dennis (GOV)
Cc: Dillon, Andy (Treasury)
Subject: Re: Flint and DWSD- IMPORTANT

From Matt Schenk tonight, after I asked him about whether another offer is in the making:

Sue did reach out to flint to get their latest requirements so that we can make another offer.
I am back on Monday to get a sense of where we are. I know that Orr was also briefed and had some concerns about how losing flint as a customer could negatively impact our value.

I will shoot a quick email to Kevyn to see if he needs any more information.

On Apr 4, 2013, at 7:27 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

> Thanks. When should I tell Orr or do you want to?
>
> ---
>
> **From:** Stibitz, Brom (Treasury)
> **Sent:** Thursday, April 04, 2013 6:29 PM
> **To:** Muchmore, Dennis (GOV)
> **Cc:** Dillon, Andy (Treasury)
> **Subject:** Re: Flint and DWSD- IMPORTANT
>
> Matt Schenk
>
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> > **Sent:** Thursday, April 04, 2013 6:27 PM
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nearly two weeks to make an effort and protect us from as much criticism.

Dennis C. Muchmore
Chief of Staff
Governor Rick Snyder, Michigan
PPI

From: Stibitz, Brom (Treasury)
Sent: Tuesday, April 09, 2013 9:14 AM
To: Muchmore, Dennis (GOV); Dillon, Andy (Treasury)
Subject: DWSD Letter
Attachments: April 8letter to dwsd.doc

Take a look...

From: Ed Kurtz [mailto:ekurtz@cityofflint.com]
Sent: Tuesday, April 09, 2013 8:20 AM
To: Stibitz, Brom (Treasury)
Subject: Fwd: DWSD

Brom, did you receive the following email yesterday. I would like to contact DWSD, but would like to hear from the Governors office before I do. Ed

---------- Forwarded message ----------
From: **Ed Kurtz** <ekurtz@cityofflint.com>
Date: Mon, Apr 8, 2013 at 10:25 AM
Subject: DWSD
To: Brom Stibitz <StibitzB@michigan.gov>

Brom, attached is a draft of a letter to Sue McCormick that I intend to email to her today, unless you have concerns with the tenor of the letter. We are just kind of tired of reading about "war" and "reckless" and "credible study" and new options in the media. Having said that, we still want to get the best deal for the people of Flint. Also, per our conversations last Friday, what is the status of the decision on our recommendation to go with KWA. Ed

ELECTRONIC LETTER

April 8, 2013

Sue F. McCormick, Director
Detroit Water and Sewerage Department
735 Randolph, Room 506
Detroit MI 48226

Dear Ms. McCormick:

The City of Flint is in receipt of your email of April 8. In it you indicate you would like to meet to discuss DWSD's recent proposals to Flint. The Emergency Manager, the Mayor and the Genesee County Drain Commissioner are not aware of any "recent proposals". We do see mention of other proposals in the media, but we have received nothing new in writing. It is disappointing to the City of Flint that DWSD has chosen to do its negotiation through the media. In particular Flint takes offense to comments such as "effectively launched the greatest water war in Michigan's history", "reckless push" and a continued reference to "a credible state-sponsored study " that we have previously indicated to you that it contained several inaccuracies.

All of this coming from a DWSD consultant that just a little over two years ago indicated that "DWSD is the poster child for Detroit corruption". Short of the DWSD issuing a public apology for the those comments and a public acknowledgment that there are legitimate concerns with the Tucker Young report, the City of Flint would find it difficult to negotiate in good faith with DWSD.

Further, it is the City's belief that you made your best offer to us in December of last year. However, having said that, if you comply with the above conditions, the City of Flint would be willing to review any new options that would be in the best interest of our citizens. Any offer must be in writing, complete in detail, including projected costs over the life of the contract, and provided prior to any meeting. Any offer must also be endorsed by the office of the Detroit Emergency Manager.

Finally, time is of the essence. Please email any of the proposals you referenced in your email to me today.

Sincerely,

Edward Kurtz
Emergency Manager

From: Stibitz, Brom (Treasury)
Sent: Tuesday, April 09, 2013 12:37 PM
To: Muchmore, Dennis (GOV); Dillon, Andy (Treasury)
Subject: RE: DWSD Letter

I responded earlier asking them to tone it down a bit. I haven't seen the final letter.

From: Muchmore, Dennis (GOV)
Sent: Tuesday, April 09, 2013 11:32 AM
To: Stibitz, Brom (Treasury); Dillon, Andy (Treasury)
Subject: RE: DWSD Letter

I think Ed should respond to McCormick. I wouldn't have reacted quite so negatively, but then that's me. I would encourage him to always stress that they are open to new proposals, but haven't seen one. But, I'm in no position to rewrite emails. I do think that a clean closure on both sides is warranted. It's not like KWA wouldn't still need a negotiating posture with DWSD.

What was Sue's response to the request for a last best offer? I take it she wasn't interested, or at least didn't feel that she could offer any more than previously done? Schenk's about as good as you can get in public life, so with Sue if they don't have an offer, I can't figure out what we can do more. I'm really surprised that DWSD hasn't responded with a final counter.

Sounds like the well is pretty poisoned (no pun intended).

From: Stibitz, Brom (Treasury)
Sent: Tuesday, April 09, 2013 9:14 AM
To: Muchmore, Dennis (GOV); Dillon, Andy (Treasury)
Subject: DWSD Letter

Take a look...

From: Ed Kurtz [mailto:ekurtz@cityofflint.com]
Sent: Tuesday, April 09, 2013 8:20 AM
To: Stibitz, Brom (Treasury)
Subject: Fwd: DWSD

Brom, did you receive the following email yesterday. I would like to contact DWSD, but would like to hear from the Governors office before I do. Ed

---------- Forwarded message ----------
From: **Ed Kurtz** <ekurtz@cityofflint.com>
Date: Mon, Apr 8, 2013 at 10:25 AM
Subject: DWSD
To: Brom Stibitz <StibitzB@michigan.gov>

Brom, attached is a draft of a letter to Sue McCormick that I intend to email to her today, unless you have concerns with the tenor of the letter. We are just kind of tired of reading about "war" and "reckless" and

"credible study" and new options in the media. Having said that, we still want to get the best deal for the people of Flint. Also, per our conversations last Friday, what is the status of the decision on our recommendation to go with KWA. Ed

From: Buhs, Caleb (GOV)
Sent: Thursday, April 11, 2013 7:13 AM
To: Silfven, Ken (GOV); Weiss, Kurt (GOV); Holyfield, Jeff (GOV); Wurfel, Sara (GOV); Muchmore, Dennis (GOV)
Subject: Flint Water Distribution Comm Plan
Attachments: Flint Water Distribution Comm Plan.docx

Attached is the comm plan for the announcement of the Treasurer's determination on the Flint water plan today. Terry will be handling at Treasury, contacting media and fielding follow-up questions. Given that this was the Treasurer's determination to make, we will send all inquiries to Terry. If we receive any questions specific to the Governor I will handle in the afternoon when I get back from Grand Rapids.

Caleb

Flint Water Distribution Comm Plan and Talking Points

4/11/13

Flint Emergency Manager Ed Kurtz submitted a resolution to Treasurer Dillon on Friday, March 29th, seeking approval for Flint to join the Karegnondi Water Authority (KWA) to secure potable water for the City of Flint. The move to join KWA would remove Flint as a customer of Detroit Water and Sewer Department (DWSD). Treasurer Dillon was required to approve the resolution by EM Ed Kurtz per PA 436, because it was an expenditure over $50,000

Communication Plan

Thursday, April 11, 2013

- **9:00 a.m.** Send official notification of approval to EM Ed Kurtz (Brom Stibitz/Amy Hichez)
- **10:00 a.m.** Call Flint Mayor and Council President (Andy Dillon)
- **10:30 a.m.** Call DWSD to notify of decision (Andy Dillon/Brom Stibitz)
- **10:30 a.m.** Contact Flint media (Terry Stanton/Caleb Buhs)
    - Ron Fonger, MLive; WNEM; WJRT; WEYI

Topline Messages

- This is a decision made by the City of Flint and is a local decision that affects their local water supply.
- After thorough review and analysis, Treasurer Dillon approved the resolution for Flint to join the KWA.
- Flint Emergency Manager Ed Kurtz has worked closely the city's elected officials throughout the decision-making process and all agree that this is best for the citizens and businesses in Flint.
- This is a good example of an EM and city officials collaborating to determine the best course of action for the city's future.
- The Departments of Treasury and Environmental Quality have approved the financial and environmental soundness of KWA's plan.
- Flint accounts for only 2% of DWSD's capacity.
- With continued efficiency improvements and ongoing administrative restructuring, DWSD will be suited to handle the loss of customers.

Background

- This move will allow Flint to control future water rates for Flint residents.
- This will save Flint at least $100 million over the next 25 years, and possibly as much as $300 million.

DRAFT

- Genesee County planned to build pipeline whether Flint was part of the project or not. The removal of the county from DWSD accounts for 4% of their capacity.
- Collaboration between the City of Flint and Genesee County could signify the start of a better relationship and could lead to future collaborative endeavors.

DRAFT

From: Buhs, Caleb (GOV)
Sent: Thursday, April 11, 2013 9:19 AM
To: Silfven, Ken (GOV); Weiss, Kurt (GOV); Holyfield, Jeff (GOV); Wurfel, Sara (GOV); Muchmore, Dennis (GOV)
Subject: Re: Flint Water Distribution Comm Plan

FYI, I was told this was on hold until final sign-off is received. I will keep everyone updated as I hear more.

On Apr 11, 2013, at 7:13 AM, "Buhs, Caleb (GOV)" <BuhsC2@michigan.gov> wrote:

> Attached is the comm plan for the announcement of the Treasurer's determination on the Flint water plan today. Terry will be handling at Treasury, contacting media and fielding follow-up questions. Given that this was the Treasurer's determination to make, we will send all inquiries to Terry. If we receive any questions specific to the Governor I will handle in the afternoon when I get back from Grand Rapids.
>
> Caleb
>
> <Flint Water Distribution Comm Plan.docx>

From: Dillon, Andy (Treasury)
Sent: Monday, April 15, 2013 11:11 AM
To: Stibitz, Brom (Treasury); Headen, Frederick (Treasury); Saxton, Thomas (Treasury)
Cc: Muchmore, Dennis (GOV); Roberts, John (GOV)
Subject: Fwd: Flint/KWA

I don't know who Fred the Engineer is.

I spoke to Brooks Patterson Sat night. He won't get in middle of this despite Det News story.

I think we need to understand if the legacy liability issue raised twice now presents a real risk to Flint. Also, Fred were you able to sort thru rate issue we discussed?

Thanks.

Andy

Sent from my iPhone

Begin forwarded message:

> **From:** fredtheengineer <fredtheengineer@comcast.net>
> **Date:** April 15, 2013, 10:46:35 AM EDT
> **To:** "Dillon, Andy (Treasury)" <DillonA2@michigan.gov>
> **Subject: Flint/KWA**
>
> Dear Mr. Dillon:
> The report produced, at your direction, by TYJT, indicated the most economical option for Flint water is to maintain a contract with DWSD. The KWA option will cost more money. Since some of the funds for the KWA solution will come from State grants and State Revolving Fund loans, that solution will cost me more money in the form of taxes. The best solution from the economic and engineering perspective is DWSD. A purely political decision that ignores economics is not in the public interest.
> Sincerely,
>
> Fred W. Barnes, PE
>
> Sent from my iPhone

From: Headen, Frederick (Treasury)
Sent: Monday, April 15, 2013 1:51 PM
To: Dillon, Andy (Treasury); Stibitz, Brom (Treasury); Saxton, Thomas (Treasury)
Cc: Muchmore, Dennis (GOV); Roberts, John (GOV)
Subject: RE: Flint/KWA

I have a few details to pin down; will need another few hours.

From: Dillon, Andy (Treasury)
Sent: Monday, April 15, 2013 11:11 AM
To: Stibitz, Brom (Treasury); Headen, Frederick (Treasury); Saxton, Thomas (Treasury)
Cc: Muchmore, Dennis (GOV); Roberts, John (GOV)
Subject: Fwd: Flint/KWA

I don't know who Fred the Engineer is.

I spoke to Brooks Patterson Sat night. He won't get in middle of this despite Det News story.

I think we need to understand if the legacy liability issue raised twice now presents a real risk to Flint. Also, Fred were you able to sort thru rate issue we discussed?

Thanks.

Andy

Sent from my iPhone

Begin forwarded message:

> **From:** fredtheengineer <fredtheengineer@comcast.net>
> **Date:** April 15, 2013, 10:46:35 AM EDT
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> **Subject: Flint/KWA**
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> Sincerely,
>
> Fred W. Barnes, PE
>
> Sent from my iPhone

From: Dillon, Andy (Treasury)
Sent: Tuesday, April 16, 2013 5:12 PM
To: Wyant, Dan (DEQ)
Cc: Stibitz, Brom (Treasury); Saxton, Thomas (Treasury); Muchmore, Dennis (GOV); Roberts, John (GOV)
Subject: Re: KWA and City of Flint

Follow Up Flag: Follow up
Flag Status: Flagged

Thanks Dan.

Sent from my iPad

On Apr 16, 2013, at 4:17 PM, "Wyant, Dan (DEQ)" <WyantD@michigan.gov> wrote:

> Andy,
>
> I have checked with multiple staff from both the Drinking Water Program and the Water Resource Division today. Their comments to me today are the same as before. KWA saves money if they separate.
>
> Dan Wyant, Director
> Department of Environmental Quality
> 517-373-7917
>
> **From:** Creal, William (DEQ)
> **Sent:** Tuesday, April 16, 2013 1:27 PM
> **To:** Wyant, Dan (DEQ); Sygo, Jim (DEQ)
> **Cc:** Verona, Laura (DEQ); Shekter Smith, Liane (DEQ)
> **Subject:** Fwd: KWA and City of Flint
>
> Here are Wrd comments.
>
> Begin forwarded message:
>
> > **From:** "Verona, Laura (DEQ)" <VERONAL@michigan.gov>
> > **Date:** April 16, 2013, 12:00:29 PM EDT
> > **To:** "Creal, William (DEQ)" <CREALW@michigan.gov>
> > **Cc:** "Alexander, Christine (DEQ)" <ALEXANDERC2@michigan.gov>, "Smith, Laura (DEQ)" <SMITHL16@michigan.gov>
> > **Subject: RE: KWA and City of Flint**
> >
> > Hi Bill,
> >
> > From a capacity standpoint, supplying KWA is completely feasible under either proposal with no adverse impact to the rest of the DWSD supply network. The proposal

lists KWAs contracted max day demand at 40.6 mgd, the design and rated capacity of the Lake Huron Plant is 400 mgd. The DWSD service area average and max day are about 650 and 950 mgd; the other four water plants combined have a rated capacity of over 1100 mgd.

I don't know the details of the cost analysis other than what has been reported by DWSD. It is my understanding that over the 30 year pay back period that full service water provided from DWSD would be more a lot more expensive than what KWA has projected if they separate. Several intermediate proposals of varying cost estimates have been presented without success. KWA was issued a permit last fall for constructing an intake (independent of DWSDs) and I think the plan is to start construction as early as this fall. Then a treatment plant would be constructed to treat the water. Flint has a water plant that draws raw water from the Flint River, but the plan would be to purchase raw water from the KWA intake and treat at their plant, using the River as a backup source. KWA has estimated a project cost of $274 million, DWSD estimated the project cost at $375 million; but I don't know exactly what the scope of work was for those estimates so I'm not sure that it's an apples to apples comparison.

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Let me know if you want to discuss this further.

thanks,
Laura

From: Creal, William (DEQ)
Sent: Tuesday, April 16, 2013 8:02 AM
To: Verona, Laura (DEQ)
Cc: Alexander, Christine (DEQ); Smith, Laura (DEQ)
Subject: FW: KWA and City of Flint
Importance: High

Laura, please take a look at this and let me know if you have any comments. Need quickly. This appears to be mainly a drinking water issue right now. Thanks.

From: Wyant, Dan (DEQ)
Sent: Tuesday, April 16, 2013 6:51 AM
To: Sygo, Jim (DEQ); Creal, William (DEQ); Shekter Smith, Liane (DEQ)
Cc: Anderson, Madhu (DEQ)
Subject: FW: KWA and City of Flint

Bill and Liane,

Can you have your staff's take a quick look at this and let me know today if they think this changes their thoughts and comments to me last week.

Dan Wyant, Director

From: Dillon, Andy (Treasury)
Sent: Monday, April 15, 2013 7:55 PM
To: Wyant, Dan (DEQ); Dennis Muchmore; Roberts, John (GOV)
Cc: Stibitz, Brom (Treasury); Saxton, Thomas (Treasury)
Subject: Fwd: KWA and City of Flint

FYI

Dan, any thoughts re the attached?

We gave dwsd until today to put best offer on table. Flint is to get back to us tmrw. I want to make sure their expected rejection is made in good faith.

Sent from my iPad

Begin forwarded message

> **From:** "Debra Ragland" <dragland@dwsd.org>
> **To:** "ekurtz@cityofflint.com" <ekurtz@cityofflint.com>
> **Cc:** "jwright@co.genesee.mi.us" <jwright@co.genesee.mi.us>, "Dillon, Andy (Treasury)" <DillonA2@michigan.gov>, "James Fausone" <fausone@dwsd.org>, "orrk@detroitmi.gov" <orrk@detroitmi.gov>, "Sue McCormick" <mccormick@dwsd.org>
> **Subject: KWA and City of Flint**
>
> Please see attached on behalf of Sue F. McCormick.
>
> Faxed copy forwarded to Mayor Dayne Walling and Jeff Wright.

From: Dillon, Andy (Treasury)
Sent: Tuesday, April 16, 2013 7:04 PM
To: Muchmore, Dennis (GOV)
Cc: Stibitz, Brom (Treasury); Headen, Frederick (Treasury); Saxton, Thomas (Treasury); Roberts, John (GOV)
Subject: Re: Flint/KWA

No legacy liability to Flint. DEQ remains firm that kwa best for Flint, lower cost. I think Kurtz held press conference today (4:30 pm) affirming decision. According to Kurtz, he got last offer from Flint Journal. Seems dwsd just wanted to negotiate in the paper. Unless I hear from you, we intend to let decision stand.

Sent from my iPad

On Apr 16, 2013, at 6:12 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

> I thought we had settled all these questions. If so, we need to answer his email with an explanation.
>
> ---
>
> **From:** Dillon, Andy (Treasury)
> **Sent:** Monday, April 15, 2013 11:11 AM
> **To:** Stibitz, Brom (Treasury); Headen, Frederick (Treasury); Saxton, Thomas (Treasury)
> **Cc:** Muchmore, Dennis (GOV); Roberts, John (GOV)
> **Subject:** Fwd: Flint/KWA
>
> I don't know who Fred the Engineer is.
>
> I spoke to Brooks Patterson Sat night. He won't get in middle of this despite Det News story.
>
> I think we need to understand if the legacy liability issue raised twice now presents a real risk to Flint. Also, Fred were you able to sort thru rate issue we discussed?
>
> Thanks.
>
> Andy
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> > **From:** fredtheengineer <fredtheengineer@comcast.net>
> > **Date:** April 15, 2013, 10:46:35 AM EDT
> > **To:** "Dillon, Andy (Treasury)" <DillonA2@michigan.gov>
> > **Subject: Flint/KWA**
> >
> > Dear Mr. Dillon:
> > The report produced, at your direction, by TYJT, indicated the most economical option for Flint water is to maintain a contract with DWSD. The KWA option will cost more money. Since some of the funds for the KWA solution will come

from State grants and State Revolving Fund loans, that solution will cost me more money in the form of taxes. The best solution from the economic and engineering perspective is DWSD. A purely political decision that ignores economics is not in the public interest.
Sincerely,

Fred W. Barnes, PE

Sent from my iPhone

From: Dillon, Andy (Treasury)
Sent: Wednesday, April 17, 2013 10:48 AM
To: Wyant, Dan (DEQ)
Cc: Muchmore, Dennis (GOV); Stibitz, Brom (Treasury); Roberts, John (GOV)
Subject: Re: KWA and City of Flint

Thanks Dan.

Sent from my iPad

On Apr 17, 2013, at 10:45 AM, "Wyant, Dan (DEQ)" <WyantD@michigan.gov> wrote:

> Andy,
>
> More DEQ staff comments attached from this morning. Our analysis has not changed.
>
> Dan Wyant, Director
> Department of Environmental Quality
> 517-373-7917
>
> **From:** Thelen, Mary Beth (DEQ)
> **Sent:** Wednesday, April 17, 2013 10:43 AM
> **To:** Wyant, Dan (DEQ)
> **Subject:** FW: KWA and City of Flint
>
> **From:** Busch, Stephen (DEQ)
> **Sent:** Wednesday, April 17, 2013 9:51 AM
> **To:** Sygo, Jim (DEQ); Shekter Smith, Liane (DEQ); Thelen, Mary Beth (DEQ)
> **Cc:** Shaler, Karen (DEQ); Benzie, Richard (DEQ); Prysby, Mike (DEQ)
> **Subject:** RE: KWA and City of Flint
>
> Director Wyant, Deputy Director Sygo, and Liane,
>
> A response at this point may be moot as Flint and Genesee Co. already held a press conference yesterday rejecting the DWSD offer.
>
> It is also unclear whether DWSD provided its offer directly to Flint and Genesee Co. by the deadline in Treasurer Dillon's letter. However, Flint and Genesee Co. still took the offer under consideration.
>
> Our office concurs with both Flint and Genesee Co. that the offers provided by DWSD were incomplete.
>
> Of the two scenarios provided by DWSD it appeared that only Scenario 2 was listed as potentially being more cost effective. However, this scenario did not address the following:
>
> 1. The DWSD scenarios are based on 40 MGD of service capacity. However, the KWA project is providing 60 MGD of initial capacity with potential expansion to 75 MGD in the future. Therefore, in order for a more direct comparison the DWSD scenario would need to increase capacity to 60 MGD, which would increase fixed rate commodity costs as well as the

capital costs for the Huron Plant that DWSD was planning to allocate to Flint and Genesee Co., presumably by as much as 50%.

2. DWSD proposals cover a 30 year period to 2042, but fail to recognize that after this period bond payments for the KWA project will be complete and result in a significant reduction in costs for the KWA option.

3. While DWSD indicates that Flint and Genesee Co. would be given "broadened representation", it remains unclear exactly what this means in terms of actual control in the decision making process.

4. This scenario continues to rely on a single transmission system and would require the City of Flint to maintain its WTP for emergency purposes and these costs do not appear to be included. In addition, use of the Flint WTP as an emergency backup would leave Genesee Co. without an adequate backup supply to meet their 30 year needs.

Again, without DWSD providing the specific details of these proposals, it is difficult to provide a true comparative analysis, and as such Flint and Genesee Co. appear to be justified in their rejection of these proposals.

Please let me know if you require any further response.

Stephen Busch, P.E.
Lansing and Jackson District Supervisor
Office of Drinking Water and Municipal Assistance
MDEQ
517-643-2314

From: Sygo, Jim (DEQ)
Sent: Tuesday, April 16, 2013 9:59 AM
To: Busch, Stephen (DEQ); Prysby, Mike (DEQ); Benzie, Richard (DEQ)
Cc: Shekter Smith, Liane (DEQ); Shaler, Karen (DEQ); Thelen, Mary Beth (DEQ)
Subject: FW: KWA and City of Flint

Steve, Mike and Richard,

Please take a look at DWSD's last best offer to the City of Flint and provide your collective perspective to the Director through Liane by the end of the week. Copy me in as well. I'll be out of the office but would like to know if you think this is worth considering.

Thank you for your expedited review.

From: Wyant, Dan (DEQ)
Sent: Tuesday, April 16, 2013 6:52 AM
To: Sygo, Jim (DEQ)
Subject: FW: KWA and City of Flint

Jim,

Liane is out of the office today, Can you forward this directly to her staff that worked on this with us.

Dan Wyant, Director
Department of Environmental Quality
517-373-7917

From: Wyant, Dan (DEQ)
Sent: Tuesday, April 16, 2013 6:51 AM
To: Sygo, Jim (DEQ); Creal, William (DEQ); Shekter Smith, Liane (DEQ)
Cc: Anderson, Madhu (DEQ)
Subject: FW: KWA and City of Flint

Bill and Liane,

Can you have your staff's take a quick look at this and let me know today if they think this changes their thoughts and comments to me last week.

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From: Dillon, Andy (Treasury)
Sent: Monday, April 15, 2013 7:55 PM
To: Wyant, Dan (DEQ); Dennis Muchmore; Roberts, John (GOV)
Cc: Stibitz, Brom (Treasury); Saxton, Thomas (Treasury)
Subject: Fwd: KWA and City of Flint

FYI

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> **Cc:** "jwright@co.genesee.mi.us" <jwright@co.genesee.mi.us>, "Dillon, Andy (Treasury)" <DillonA2@michigan.gov>, "James Fausone" <fausone@dwsd.org>, "orrk@detroitmi.gov" <orrk@detroitmi.gov>, "Sue McCormick" <mccormick@dwsd.org>
> **Subject: KWA and City of Flint**
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> Please see attached on behalf of Sue F. McCormick.
>
> Faxed copy forwarded to Mayor Dayne Walling and Jeff Wright.

From: Dillon, Andy (Treasury)
Sent: Wednesday, April 17, 2013 10:50 AM
To: Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Stibitz, Brom (Treasury)
Cc: Muchmore, Dennis (GOV); Roberts, John (GOV); Wyant, Dan (DEQ)
Subject: Fwd: KWA and City of Flint

May not be a bad idea to have this available for public consumption seeing as the two sides like to negotiate in the media.

Sent from my iPad

Begin forwarded message:

From: "Wyant, Dan (DEQ)" <WyantD@michigan.gov>
Date: April 17, 2013, 10:45:45 AM EDT
To: "Dillon, Andy (Treasury)" <DillonA2@michigan.gov>
Subject: FW: KWA and City of Flint

Andy,

More DEQ staff comments attached from this morning. Our analysis has not changed.

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517-373-7917

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> Please see attached on behalf of Sue F. McCormick.
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> Faxed copy forwarded to Mayor Dayne Walling and Jeff Wright.

From: Dillon, Andy (Treasury)
Sent: Wednesday, April 17, 2013 2:19 PM
To: Muchmore, Dennis (GOV)
Cc: Stibitz, Brom (Treasury); Scott, Allison (GOV); Roberts, John (GOV); Hichez, Amy (Treasury)
Subject: Re: KWA & DWSD

Ok. Amy, please get available times and dates from Governor. We should ask Wyant and one of his engineers.

Isn't Gov in Flint Friday? Maybe we could do it then in Flint if his schedule permits.

Sent from my iPad

On Apr 17, 2013, at 1:44 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

> The Gov would like you to call together Orr, Kurtz, DWSD, KWA and talk the situation through. He will participate. If something is resolved it will be good, if not, so be it.
>
> Sent from my iPhone

From: Dillon, Andy (Treasury)
Sent: Wednesday, April 17, 2013 4:12 PM
To: Hichez, Amy (Treasury)
Cc: Stibitz, Brom (Treasury); Muchmore, Dennis (GOV); Roberts, John (GOV); Scott, Allison (GOV)
Subject: Re: Water meeting with Gov, Orr plus others

Ok to book during that window. Can it be in Detroit? This delay likely means Flint will be pregnant w KWA by then.

We let Kurtz come w he and two or three and DWSD Fausone w same # as Flint.

Also, invite Wyant and Key engineer. One from Tucker Young.

Dennis, I didn't send Governor report from DEQ (email I sent you) but will now. Is there a max # of people for this?

Sent from my iPad

On Apr 17, 2013, at 4:04 PM, "Hichez, Amy (Treasury)" <HichezA@michigan.gov> wrote:

> The Governor would like to do this meeting next week. The Governor as well as Mr. Orr are available on Wed April 24th from 1-4pm. Andy, you requested a hold from 12-5 for a meeting with Mr. Buckfire on this day. Please clarify what you would like to do and WHO are the attendees/contacts for DWSD and KWA?
>
> -----Original Message-----
> From: Dillon, Andy (Treasury)
> Sent: Wednesday, April 17, 2013 2:19 PM
> To: Muchmore, Dennis (GOV)
> Cc: Stibitz, Brom (Treasury); Scott, Allison (GOV); Roberts, John (GOV); Hichez, Amy (Treasury)
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>
> Amy Hichez
> Executive Administrator to State Treasurer Andy Dillon
> Richard H. Austin Building

430 West Allegan Street
Lansing, MI 48922
Office: 517-241-2624
Cell: PPI
Fax: 517-335-1785

From: Stibitz, Brom (Treasury)
Sent: Thursday, April 18, 2013 5:59 PM
To: Dillon, Andy (Treasury); Roberts, John (GOV); Stibitz, Brom (Treasury); Saxton, Thomas (Treasury); Muchmore, Dennis (GOV)
Subject: KWA Background Materials
Attachments: KWA SUMMARY FOR GOVERNOR Version I 04-18-13.pdf; KWA and City of Flint.pdf; Dillon KWA.PDF; UPDATED FLINT DWSD KWA ASSESSMENT Version VIII 02-21-13.pdf; TYJT Recommendaton DWSD vs Flint.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Additional reading material, per your request.

Attached:

1) 2 page summary put together today by Office of Fiscal Responsibility Staff, "KWA SUMMARY FOR GOVERNOR…"
2) Final Offer from DWSD, "KWA and City of Flint.pdf"
3) Letter from Ed Kurtz, declining DWSD offer, "Dillon KWA.PDF"

   And if you are really into reading more…

4) Office of Fiscal Responsibility Analysis of Situation (from February), "UPDATED FLINT DWSD KWA ASSESSMENT…"
5) One pager from Tucker Young Jackson Tull (from March), "TYJT Recommendation…"

Finally, some comments from DEQ staff after the 4/15 offer from DWSD:

Comment 1:

From a capacity standpoint, supplying KWA is completely feasible under either proposal with no adverse impact to the rest of the DWSD supply network. The proposal lists KWAs contracted max day demand at 40.6 mgd, the design and rated capacity of the Lake Huron Plant is 400 mgd. The DWSD service area average and max day are about 650 and 950 mgd; the other four water plants combined have a rated capacity of over 1100 mgd.

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considering a study to see if they could re-work the Grosse Pointe Farms network to purchase water from them rather than DWSD through GP Woods.

Comment 2:

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Brom Stibitz
Senior Policy Advisor
Michigan Department of Treasury
517-373-3223
stibitzb@michigan.gov

89 (Rev. 02-11)

STATE OF MICHIGAN
DEPARTMENT OF TREASURY
LANSING

RICK SNYDER
GOVERNOR

ANDY DILLON
STATE TREASURER

SUMMARY REPORT

TO: Brom Stibitz, Senior Policy Advisor; Department of Treasury

FROM: Eric Cline. Unit Operations Specialist

SUBJECT: Flint Water System Summary

DATE: April 18, 2013

Summary

In November 2012 the Department of Treasury commissioned the firm of Tucker, Young, Jackson & Tull, Inc. (TYJT) to analyze options for the City of Flint to either remain a customer of the Detroit Water & Sewer Department (DWSD) or to join the Karegnondi Water Authority (KWA) in Genesee County. The purpose of this study was to provide objective analyses to the State Treasurer and Flint's Emergency Financial Manager (EFM) in order to secure future potable drinking water for the City.

In December 2012, staff from TYJT met with representatives from the Department of Treasury and the City of Flint to provide a preliminary report on their findings. At this meeting, five options were presented: These options ranged from the Flint Water Plant providing 100% water, to 100% provision of untreated Lake Huron Water by KWA, to 100% provision of treated drinking water by DWSD, or provision of variable amounts of water from DWSD using a combination of blended DWSD water and Flint River water.

From the presentation of the preliminary report in December 2012 to the submission of the final report by TYJT in January 2013, a number of developments made arriving at a final decision very difficult.

- DWSD provided the City of Flint with at least two modified proposals to consider.
- A debate ensued between TYJT and KWA's principal engineering firm regarding the others' conclusions and estimates for construction of the KWA pipeline.
- The Flint EFM eliminated all options except the 100% DWSD option or joining KWA.

In January 2013, the OFR provided a comprehensive report to the State Treasurer analyzing three questions: 1) The projected construction costs and why Treasury believed the projections provided by Flint/KWA were acceptable; 2) Identification of the construction contingencies; and 3) Identification of the options Flint will utilize in the event of a construction cost overrun or a delay in construction. At the end of this report, the OFR recommended to the State Treasurer that KWA presented the best future option for future potable water. The OFR also concluded that KWA appeared to be the cheaper option; the quality of water would improve; Genesee County appeared willing to assist the City in securing the financing for their portion of the project; the KWA project could signify the beginning of better collaboration between the City of Flint and Genesee County; and the KWA project had both political and popular support.

Between January and April, intense scrutiny of the various proposals was undertaken by Treasury and Flint officials. Treasury officials met with officials from Genesee County to gain a better understanding of the KWA project. In February 2013, Genesee County opened bids for construction of the Lake Huron intakes. This bid opening represented the first meaningful step toward commencing construction of the KWA system. The bid was $3-million less than projected.

In March 2013, Treasury was notified that DWSD had contacted Flint to negotiate with the City to retain them as a customer. On April 12, 2013, the State Treasurer authorized the Flint EFM to join KWA, pending review of any final offer from DWSD. A final offer was received from DWSD on April 15, 2013.

DWSD's final offer provided two options. The first option was for a "supply only" rate schedule. Only water treatment costs would be recovered and DWDS would absorb all other delivery costs. Capital and operating revenue charges would be calculated based upon KWA's usage relative to the entire demand upon DWSD's Lake Huron WTP. KWA would also have the ability to construct and own its own transmission lines.

The second option was a "full service" rate option. DWSD would provide all production and transmission services. Transmission rates would be calculated only on those costs necessary to supply KWA and no additional transmission rates would be charged. Capital and operating revenue charges would be calculated based upon KWA's usage relative to the entire demand upon the Lake Huron WTP.

Independent analyses of DWSD's final offer by the OFR, the Flint EFM, and the Department of Environmental Quality (DEQ) generally reached the same conclusions:

- DWSD's offer was a framework subject to negotiations and was not a firm offer.
- The offer provided by DWSD was incomplete.
- DWSD's offer did not include a guaranteed rate beyond year one, nor did it limit maximum annual rate increases.
- The DWSD scenarios were based on 40 MGD of service capacity. However, the KWA project provides 60 MGD of initial capacity with potential expansion to 75 MGD.
- DWSD indicates that Flint/ Genesee County would be given "broadened representation," it is unclear exactly what this means in terms of actual control in the decision making processes.
- The DWSD offer relies on a single transmission system and would require the City of Flint to maintain its WTP for emergency purposes. In addition, it would leave Genesee County without an adequate backup supply to meet their needs.
- DWSD's offer included an attachment that listed the rank-ordered options (from cheapest to most expensive). DWSD Scenario 2 is listed as the least expensive option (but it is unclear how the total cost of this option was arrived at). DWSD Scenario 1 was not listed.
- DWSD provided a summary table of their unit costs but how these figures are arrived at was not clear, so analysis proved difficult.

Without specific details from DWSD on this proposal, a true comparative analysis is difficult to provide. As such the Flint EFM rejected the DWSD proposal and agreed to join KWA.

If further information on this issue is needed, please let me know.

Copy: Roger Fraser, Deputy State Treasurer; Bureau of Local Government Services
Edward Koryzno, Administrator; Office of Fiscal Responsibility
Randall Byrne, State Administrative Manager; Office of Fiscal Responsibility

CITY OF DETROIT
WATER AND SEWERAGE DEPARTMENT
OFFICE OF THE DIRECTOR

735 RANDOLPH STREET
DETROIT, MICHIGAN 48226
WWW.DETROITMI.GOV

April 15, 2013

Karengondi Water Authority
4160 Beecher Rd.
Flint, Michigan 48532-2617

Ed Kurtz, Emergency Manager
City of Flint
1101 South Saginaw Street
Flint, Michigan

Gentlemen:

Over the last several months, governed by a process laid out by the State of Michigan, the Detroit Water and Sewerage Department (DWSD) has proposed a number of alternatives for long term water supply to the City of Flint. Each alternative was offered in the spirit of working in earnest to address the needs, priorities and concerns of the City of Flint and each provided an immediate cost reduction when compared to the current costs of water purchased from DWSD. In the final analysis conducted by Flint, these proposals did not overcome the desire for the Flint/Genesee region to be served by the same system and to have a voice in the future decisions governing the provision of water to this region.

Many of the proposals DWSD has made to Flint during this period are applicable to Flint/Genesee County or KWA with adjustments to demand and use requirements and would provide similar overall benefit. These options remain available for further discussion should the parties' desire. These prior proposals are included in summary form in Attachment 1 as an expanded table 6-1 from the February 2013 State of Michigan Contract No. 271N3200089, City of Flint Water Supply Assessment, submitted by Tucker, Young, Jackson, Tull, Inc. For comparison purposes only, DWSD's new proposal (Flint's 30% allocated share) is inserted.

The proposal scenarios outlined today offer a public/public partnership with options tailored to Flint/Genesee County or KWAs interests. For ease of writing, the remainder of this memo will present this proposal to KWA. Two basic scenarios are presented for consideration, both of which contemplate that KWA would enter a multi-year contract. Service commitments and usage definitions would be negotiated in the same manner as employed that have resulted in new contracts for other customers.

In brief, the proposal provides a unique opportunity to reserve capacity at DWSD's Lake Huron Water Treatment Plant and to participate in decision making for facility operation and capital investment through a joint operating committee. The proposal envisions that KWA would enter into a 30-year contract to purchase treated water directly onsite at DWSD's Lake Huron Water Treatment Plant.

In Scenario 1 the purchased water can either be pressurized or unpressurized. This first scenario results in a "supply only" rate schedule, with a "standby delivery" component to provide for emergency service at the existing Baxter / Potter connection. This scenario provides KWA the ability to construct new transmission owned and operated by KWA.

Scenario 2 maintains the public/public partnership concept and extends it to transmission facilities through which the Lake Huron Water Treatment Plant provides water. This scenario results in a "full service" rate schedule. The standby delivery component is eliminated, since the rate structure to KWA includes costs associated with the transmission system between the Lake Huron Water Plant and the Baxter / Potter connection.

DWSD proposes a modified rate schedule for the customers currently served through the contract with the City of Flint, which includes Flint and Genesee County. This modified schedule is intended to facilitate negotiations for a new water service agreement with the Karegnondi Water Authority (KWA). The scenarios presented herein represent the innovative thinking that DWSD and its new leadership are bringing to the table. Our goal is to provide the lowest cost water solution for the KWA service area.

The potential rate structures are introduced in summary form herein, with preliminary calculations using the proposed rate structures with FY 2013-14 as a baseline. These calculations and the accompanying discussion are based on the assumptions regarding contract terms that approximate recent discussions amongst the parties.

The proposal introduces the concepts, but does not definitively present all of the specifics, appreciating that such specifics are best addressed through negotiations designed to produce a new contractual agreement satisfactory to all parties.

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Scenario 1 – Lake Huron Direct Supply Purchase:

- KWA enters into a long term partnering arrangement with DWSD to purchase all of its primary water supply directly at the DWSD Lake Huron water treatment plant.
- Supply rate schedule is designed to recover only water treatment revenue requirements. This rate schedule does not contain any delivery costs (pumping, transmission, storage, etc.).
- Supply rate schedule is computed based on specific costs associated with the Lake Huron Plant. No other DWSD revenue requirements, including those associated with other DWSD water plants, are included in the rate to KWA.
- Revenue requirements are separated into capital recovery and operation and maintenance expense elements. Baseline revenue requirement data (including operating budget, rate of return, depreciation assumptions, etc.) are identical to those developed for all other wholesale customers.
- KWA is allocated Lake Huron Plant capital revenue requirements based on the proportion of their contracted max day demand (assumed in these calculations at 40.6 mgd) relative to the total capacity at the Lake Huron Plant (400 mgd). The resulting revenue requirements are recovered through a fixed monthly charge.
- KWA is allocated Lake Huron Plant operating revenue requirements based on the proportion of their contracted average daily usage (assumed in these calculations at 24 mgd) relative to the total average daily usage at the Lake Huron Plant (assumed at 125 mgd in these calculations).
- Calculations are conducted for two alternatives. Purchase of *pressurized* water (after high lift pumping) and *unpressurized* water (KWA takes directly from clearwell.)
- Contract includes an arrangement for emergency service at the existing Baxter / Potter connection, and computes a standby charge related to such service.
- The standby charge is computed in the manner set for the by the American Water Works Association (AWWA) in its Manual of Water Supply Practices M1 - "Principles of Water Rates, Fees, and Charges" Manual M1.
    - KWA is allocated one day's worth of transmission related capital revenue requirements.

Scenario 2 – "Full Service" Lake Huron System

- Same as the "pressurized" option in Scenario 1, except that concept is extended to the pumping, storage, and transmission facilities directly served by the Lake Huron Plant
- Transmission rate schedule is computed based on specific costs associated with these facilities. No other DWSD revenue requirements, including those associated with other DWSD transmission mains, etc, are included in the rate to KWA.
- Revenue requirements are separated into capital recovery and operation and maintenance expense elements. Baseline revenue requirement data (including operating budget, rate of return, depreciation assumptions, etc.) are identical to those developed for all other wholesale customers.
- KWA is allocated Lake Huron "transmission system" capital revenue requirements based on the proportion of their contracted max day demand (assumed in these calculations at 40.6 mgd) relative to the total capacity at the Lake Huron Plant (400 mgd). The resulting revenue requirements are recovered through a fixed monthly charge.

- KWA is allocated Lake Huron "transmission system" operating revenue requirements based on the proportion of their contracted average daily usage (assumed in these calculations at 24 mgd) relative to the total average daily usage at the Lake Huron Plant (assumed at 125 mgd in these calculations).
- Standby charge is eliminated.

The resulting potential proposed rate structures under both Scenarios are summarized below.

Potential Proposed DWSD Water Rate to KWA
Lake Huron Direct Scenario

	1 - Supply Rate @ LH Plant		2 - Full Service
	Unpressurized	Pressurized	Wholesale Rate
Supply Rate			
Fixed Monthly Capital Charge - $	219,900	316,600	503,200
Commodity Rate - $/Mcf	2.60	4.16	5.31
Average Unit Cost - $/Mcf	*4.85*	*7.40*	*10.46*
Monthly Standby Charge	167,500	110,300	0
Total Monthly Charge	387,400	426,900	503,200
Total Average Unit Cost - $/Mcf	*6.57*	*8.53*	*10.46*

The direct comparison over the period 2013-2042 is demonstrated in Attachment 2.

As KWA considers this proposal, I offer the following observations for consideration:

- The Public Partnership requires the least near term capital investment and preserves the economy of scale associated with operation of a large regional system resulting in an immediate reduction in the cost of water supply for Flint/Genesee, making the identified and necessary near term investment in local water infrastructure more feasible.
- The Public Partnership provides the opportunity to optimize service level and efficiency through collaborative asset management decision making.
- The Public Partnership provides representation for critical decision making consistent with DWSD newly demonstrated interest in engaging our customers in critical decisions impacting them. This formalizes that interest in contractual terms.
- The Public Partnership reduces the risks identified with a 'go alone' solution, including further declines in use/sales (see graph), project cost overruns or schedule delays and other unforeseen costs inherent in starting a new venture. See Attachment 3
- The DWSD Board of Commissioners has previously approved sale of raw water from the Lake Huron facilities for raw water end use. We remain open to further discussion about the raw water capacity needs and stand ready to provide an affordable commodity option.

DWSD is an organization in transformation. In April of 2011, a new Board of Commissioners was seated with additional autonomy and more direct customer representation. In the past year we have demonstrated the ability to reduce costs, resolve long standing compliance issues and have gained support for establishing a new legal and operational model for DWSD that could enable broadened representation for Flint/Genesee on the Governing Board.

I remain available to discuss this proposal to assure that each of the issues critical to Flint/Genesee are addressed.

Best regards,

Sue McCormick, Director
Detroit Water and Sewerage Department

Cc: Andy Dillon, State Treasurer
Dayne Walling, Mayor – City of Flint
Kevyn Orr, City of Detroit Emergency Financial Manager
Jeff Wright, Genesee County Drain Commissioner
James Fausone, Chair – Detroit Board of Water Commissioners

DWSD Water Supply Costs Estimates to Flint

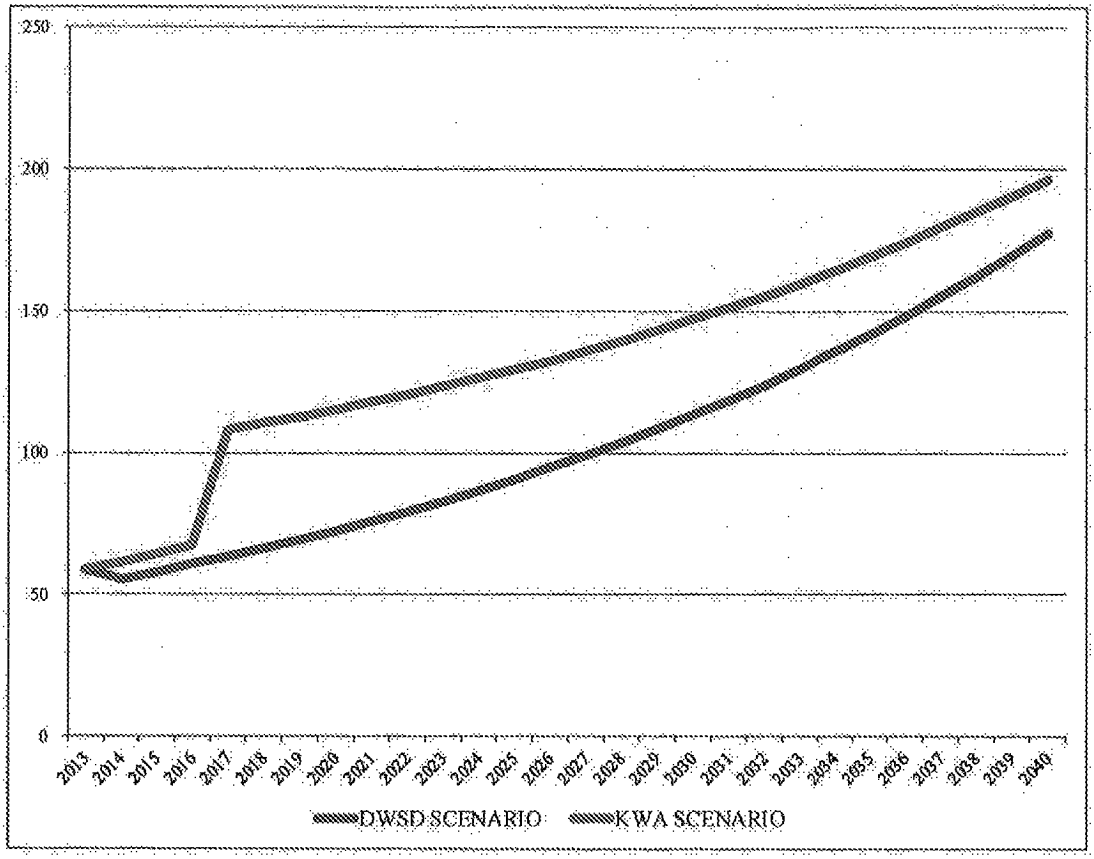
Option	Water Supply Costs ($) through 2042	Ranking by Cost
DWSD 4/15/2013 Scenario 2	587,990,650	1
DWSD 8 MGD Max Day @ Imlay	634,795,488	2
*KWA (10/31/12 No Overruns, As Provided) **	649,775,166	3
DWSD 8 MGD Max Day @ Baxter / Potter	672,671,705	4
KWA-1 (10/31/12 No Overruns with Financing Costs)	707,279,715	5
DWSD 12 MGD Max Day @ Imlay	725,576,803	6
DWSD 12 MGD Max Day @ Baxter / Potter	762,110,308	7
KWA-2 (Treasury Estimate)	766,784,313	8
DWSD 12 mgd Twin Line Proposal / No blending	818,092,150	9
DWSD 18 MGD Max Day @ Baxter / Potter	821,226,268	10

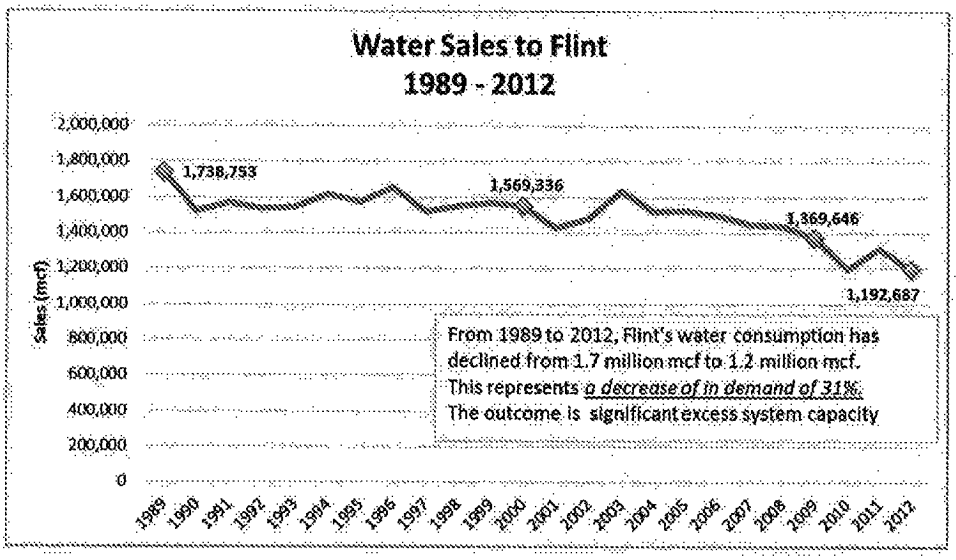
Italicized Options as presented in TYJT Report

DWSD Water Supply Costs Estimates to Flint / GCDC
$ millions

Option	All Water Costs ($) through 2042	Ranking by Cost
DWSD 4/15/2013 Scenario 2	3,282.00	1
Estimate of KWA	4,090.06	2

SUMMARY OF **TOTAL** PROJECTED WATER COSTS TO FLINT/GCDC - SCENARIO COMPARISON *($ millions)*




Water Sales to Flint
1989 - 2012
Sales (mcf)
2,000,000
1,800,000
1,600,000
1,400,000
1,200,000
1,000,000
800,000
600,000
400,000
200,000
0
1,738,753
1,569,336
1,369,646
1,192,687
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
From 1989 to 2012, Flint's water consumption has declined from 1.7 million mcf to 1.2 million mcf.
This represents a decrease of in demand of 31%.
The outcome is significant excess system capacity

CITY OF FLINT
OFFICE OF EMERGENCY MANAGER
EDWARD J. KURTZ

ELECTRONIC LETTER

April 16, 2013

Andy Dillon
State Treasurer
P. O. Box 30716
Lansing, MI 48909

Dear Treasurer Dillon:

Flint, Genesee County and KWA received an eight page letter from Detroit Water and Sewerage Department (DWSD) offering a framework for a long-term agreement with our region. Two scenarios were presented;

Scenario 1: Water from the Lake Huron Plant.

This offer was dismissed immediately because Flint would still be responsible for their share of the KWA water pipeline delivery system estimated to be $79 million. In addition Flint would not be able to operate the Flint Water Plant in which we have invested over $40 million per MDEQ mandates over the past ten years. Finally, although DWSD shows this as an option and supplied a per month cost projection for the first year, no total costs over the life of the contract were provided.

Scenario 2: "Full Service" Water Supply

This offer was also rejected. DWSD would supply water to Flint/Genesee the same way they currently are today. They would change the method of calculating our bill. The offer would provide a $1.00 per ccf reduction on our usage for the first year, providing a 30 year contract is signed.

After review of the offer, Flint/Genesee has the following concerns:

1. DWSD's offer is a framework subject to negotiations and is not a firm offer.

2. DWSD's offer is based on 40.6 mgd, the KWA plan is based on 60 mgd. Flint/Genesee last summer hit the peak of 40.6 mgd and this DWSD offer provides no room for growth. Growth would result in penalties or added cost.

3. DWSD's offer does not include a guaranteed rate for years two through thirty, nor does it provide a maximum annual increase.

4. DWSD's offer does not provide a redundant supply for GCDC.

5. DWSD's offer does not allow for the use of Flint's existing water plant.

6. The offer indicates that the total cost to Flint over the life of the contract would be $587,990,665. No indication of what annual rate of increase was used in this projection. Flint can only assume it is 4.4% based on the Tucker Young report. It is also based on 40.6 mgds. KWA's proposal is for $649,775,166 based on 60mgds (33% more). Based on 60 mgds DWSD's proposal would be $868,950,738.

On a final note, Flint/Genesee has great concern over the accuracy of the figures provided by DWSD. Attachment 1 indicates that our joint annual cost to DWSD is $50 million; actual cost is less than $25 million. Attachment 2 indicates $800 million in savings over the next 30 years. That is greater than the total cost we would pay DWSD.

Therefore, I will sign the resolution to join KWA at the close of business today.

Sincerely,

Edward J. Kurtz
Emergency Manager

89 (Rev. 02-11)

STATE OF MICHIGAN
DEPARTMENT OF TREASURY
LANSING

RICK SNYDER
GOVERNOR

ANDY DILLON
STATE TREASURER

ANALYSIS REPORT

TO: Edward Koryzno, Administrator; Office of Fiscal Responsibility

FROM: Eric Cline. Unit Operations Specialist

SUBJECT: Updated Flint Water System Status Assessment

DATE: February 21, 2013

Analysis Summary

On November 26, 2012, the Department of Treasury commissioned the firm of Tucker, Young, Jackson & Tull, Inc. (TYJT) to analyze options for the City of Flint to either remain a customer of the Detroit Water & Sewer Department (DWSD) or to join the Karegnondi Water Authority (KWA) in Genesee County. The overarching purpose of this study was to provide objective analyses to the State Treasurer and to Flint's Emergency Financial Manager (EFM) in order to secure potable drinking water for the City for the foreseeable future. The Office of Fiscal Responsibility (OFR) has been the lead office representing Treasury in this project.

On January 14, 2013, the State Treasurer requested responses to three questions: 1) Show the different, projected construction costs provided by TYJT and by the City of Flint/KWA. If these costs are different, explain why Treasury believes that the projects provided by Flint/KWA are acceptable; 2) identify the construction contingencies included in the TYJT and Flint/KWA projections; and 3) identify the options Flint will utilize in the event of a construction cost overrun or a delay in construction by KWA.

This has been a very difficult project to analyze because of the number of proposals to consider, differences of opinion about the conclusions of various engineering analyses that have been conducted, the fact that the analyses are comparing an existing, operational water system with one that has not yet been designed, and conditions within the City of Flint that make it difficult to assess their true water needs.

However, despite these difficulties, I believe that **KWA** presents the best future option to provide potable water for the City of Flint in the future. Long-term, KWA appears to be the cheaper option; the quality of water will almost certainly improve; Genesee County appears willing to assist the City in securing the financial resources for their portion of the project; this project could signify the beginning of better collaboration between the City of Flint and Genesee County; the KWA project has both political and popular support.

The following details how this recommendation was arrived at:

Background:

On December 21, 2012, staff from TYJT met with representatives from the Department of Treasury and the City of Flint to provide a preliminary report on their findings. At this meeting, TYJT outlined 5 options that they had analyzed. These options were: 1) 100% water provision by the City of Flint Water Plant from its water source of the Flint River; 2) 100% provision of untreated Lake Huron Water by KWA (which would require treatment by the Flint Water Plant); 3) Effective 100% provision of treated drinking water by DWSD; 4) Provision of variable amounts of water from DWSD through the existing Potter & Baxter master meter (this option called for Flint to treat and *blend* river water into DWSD water in order to reach their daily needs); and 5) Provision of variable amounts of water from DWSD through the 72" Imlay City main (this option also called for Flint to treat and *blend* river water into DWSD water in order to reach their daily needs). Each of the blending options looked at Flint purchasing 4, 8, or 12 Million Gallons per Day (MGD) from DWSD and blending the balance in river water to achieve their maximum daily water needs of 18 MGD. The Imlay City option also provided for DWSD to sell the 72" main to the City of Flint, which would then become the operational and maintenance responsibility of Flint.

From the presentation of the preliminary report on December 21 to the submission of the final report to the State by TYJT on January 29, 2013, a number of developments occurred that made analysis and arriving at a final decision very difficult. They were:

- DWSD provided the City of Flint with at least two modified proposals to consider.
- TYJT and Rowe Professional Services Company (Rowe), the principal engineering firm for KWA (and Genesee County and the City of Flint), began disputing the others' conclusions and estimates regarding the construction of the KWA pipeline.
- The Flint EFM also disputed several of TYJT's conclusions. At a January 10, 2013, meeting with Treasury, the EFM also eliminated the 100% Water Plant option, using the Flint River as a 100% water source (which was cheapest option, as determined by TYJT).
- At a January 10, 2013 meeting, Flint officials eliminated all of the DWSD Imlay City options (which were the cheapest DWSD options) over concerns of owning and maintaining the 72" water main. They also eliminated consideration of any of the blending options originally proposed to DWSD, in part over concerns of added costs to soften the water. This effectively left the only options remaining under consideration by Flint to be the 100% DWSD option (which TYJT estimated to be more expensive than either of the KWA cost options) or joining KWA.

I believe that TYJT's analysis was hampered by the very short timeframe in which they attempted to conduct this analysis; which, may have led to be being more conservative in some of their estimates. I believe that some of the comparable systems used in their analysis may not have been the best options but given that KWA is still in the design phase, may represent the best selection of comparable. I also believe, for whatever reasons, that all of the information (from both DWSD and KWA) TYJT needed to effectively analyze these options was not provided to them.

Projected Construction Costs:

Based upon the provided construction estimates, TYJT estimates the KWA construction costs at **$357.6-million**. KWA estimates construction costs at **$272.4-million**. TYJT states in their final report that they received "limited information" from KWA, which might have resulted in more conservative estimates.

The primary differences between the two estimates center around 1) the cost of constructing the pumping stations; 2) land acquisition costs; 3) contingency costs (discussed below); 4) the provision of

construction management services; 5) design costs; and 6) redundant power at the pumping stations. Cost estimates were reasonably similar by both firms in other areas except for those noted above.

The cost of constructing the pumping stations is the biggest difference between the two estimates (**$24.6-million vs. $54.5-million**). TYJT stated that they believe KWA had not designed the pumping stations to the point where more accurate numbers could be achieved. TYJT also stated that their estimates were based on construction costs for a similar project in SE Michigan. KWA maintains that construction costs in Genesee County are much lower than in SE Michigan and that they have extensive experience in construction projects that will help keep costs in-line. KWA has also stated that the construction of the transmission pipeline will be done by multiple contractors in order to save time and allow more Michigan contractors to bid on the project.

TYJT added **$1.2-million** to their estimates for land and easement acquisition. KWA has stated that they have already secured nearly all of the land and easement accesses needed for this project. It is likely that TYJT was unaware of this when they developed their estimates.

TYJT also added 5% (**$14.4-million**) to their estimated base cost for construction management services. TYJT has stated that KWA has not taken these costs into account. KWA maintains that they have accounted for them and these costs will not be that high.

Nearly **$18-million** was added to TYJT's estimates for design costs and legal work for the design of both the pumping stations and the transmission pipeline. KWA maintains that they have accounted for these expenses.

TYJT also included **$1.3-million** in new costs for standby power at the pumping stations. KWA has made no provisions for redundant power at the pumping facilities. TYJT included the provision of redundant power in their estimates and notes that this is an industry standard. KWA officials have stated that the new water plant will have redundant power but that the pumping stations will not. The stated reasons for not including redundant power were cost containment, that Flint can use the Flint River as a backup water supply in the event of an extended power outage and that the KWA systems' water storage capacity will allow for 7 days of reserve supply. KWA has also stated that they will look at installing standby power later but can utilize portable generators at the pumping stations, if necessary.

If the additional costs are not included, then the TYJT and the KWA estimates are within 5% of each other. This may/may not be acceptable differences, but I believe the only way to verify the accuracy of either estimate would be to utilize a third engineering firm to independently review both TYJT and KWA's estimates.

Project Contingency:

Construction contingency costs, also known as Engineering, Land, Administration, and Contingency costs (ELAC) are summarized in an attached chart developed by Rowe for the City of Flint. KWA/Rowe estimates total construction at $272.4-million, with **$53.2-million** (25%) for ELAC contingencies. County Water and Sewer Administrator John O'Brien clarified at a January 28, 2013 meeting that there is a 15% contingency for unforeseen issues and 10% "extra." TYJT estimates total construction at $357.6-million, with **$107.3-million** (30%) for ELAC contingencies.

TYJT stated that they believe that 25% ELAC for a project of this scope that is (at the time of the final report) less than 15% designed is insufficient; hence the more conservative estimate. The 5% difference in ELAC costs adds nearly $40-million to the TYJT estimate.

Construction Cost Overrun/Construction Delay Options:

The OFR is not aware of any contingency plans developed by either KWA or the City of Flint to address construction cost overruns or significant construction delays. The final TYJT Water Supply Assessment Report does reference an October 31, 2012 letter from KWA to EFM Kurtz in which KWA anticipates a "worse-case scenario" of a 15% cost overrun and a one-year operational delay. KWA projects, under this scenario, that water from DWSD would be cheaper than KWA until 2020 as opposed to 2016; reducing projected cumulative savings from $19-million to $3.9-million by Year 8 (2020).

County Drain Commissioner Jeff Wright stated at a January 28 meeting that, if necessary, KWA has the authority to borrow more funds to complete the project in the event that delays or cost overruns necessitate the borrowing of more funds. However, Mr. O'Brien also stated that the January 28 meeting that KWA expects to purchase insurance policies to insure against delays to the project. It has been suggested that a one-year delay in completion could increase project costs by as much as $20-million. Further discussion with Mr. O'Brien reveals that KWA is looking into purchasing a "wrap-around" policy against construction delays and a builders' risk policy; the costs of which are still being determined by KWA. Drain Commission Wright also indicated at the January 28 meeting that if construction bids come-in significantly higher than estimated that KWA will likely reassess its approach to this project.

Conclusions:

It is likely that TYJT's estimates are overly conservative. Their own analysis concludes that KWA's projections are cheaper than their estimate of the KWA project. Even with a 15% cost overrun and a one-year delay (Worst-case scenario), KWA's estimate is still lower than TYJT. All estimates for KWA are cheaper than the 100% DWSD option (all other DWSD options were eliminated from consideration by the EFM).

That is not to say that the KWA estimates are without fault. KWA is a new venture and the "unknowns" exist at the initial phases of the project. KWA has the potential to be the cheaper, long-term cost for the City of Flint after the bond debt for construction is retired. Significant construction delays and/or cost overruns could greatly add to the cost of this project, which could add to the financial burden on Flint.

Realistically, the true cost for this project will likely be in the middle of the two estimates. The bids for construction of the KWA lake water intake will be opened on February 26, 2013, with the expectation of presenting a recommendation for bid award on March 20. Comparison of the bids and the estimates for intake construction could be an indicator of the more valid estimate.

There are also some additional factors that are outside of the three questions asked by the State Treasurer that influence a final recommendation on this project. The first is DWSD. DWSD is a "known" entity and the system is already in-place and in operation. DWSD may also be the cheaper option in the short term. However, selecting DWSD requires a 30-year commitment and the unknown aspect of future rate increases is very concerning to Flint officials. EFM Kurtz has stated that the City has experienced rate volatility over the history of its relationship with DWSD. According to the EFM, the average historical annual rate increase for the City is **6.7%**, but over the past 10-years the average annual rate increase has been **10.5%**.

All estimates show KWA being cheaper to Flint than DWSD after capital costs are retired. There also appears to be considerable local resistance to continuing a relationship with DWSD.

The upfront costs and the premium water charges assessed by DWSD while KWA is being constructed are of great concern to City officials. Flint officials have indicated that approximately **$3.5-million** in capital upgrades is needed for the Water Plant if the KWA option is selected. However, at a January 28,

2013 meeting, County Drain Commissioner Wright indicated that Genesee County will permit Flint to participate in its revenue bond sale for KWA for Flint's 30% share of capacity in the KWA System and for plant upgrades. Given Flint's current financial situation, were this participation to occur, it will be a positive development for the City because it is likely Flint would have a very difficult time issuing bonds on the strength of its own credit rating. The Drain Commissioner also indicated a willingness to discuss how KWA might mitigate the $5- to $6-million cost of the "premium" rate that would be charged to the City of Flint by DWSD for the City to purchase water while KWA was being constructed.

On February 4, 2013, a proposal was received from EFM Kurtz that outlined a two-phased approach to resolve the cost of this premium charge. First, the City will transfer six miles of 72" water main owned by the City that extends into Genesee County in lieu of the **$2.3-million** up-front payment the City would have to make for construction of the KWA system. The second phase involves KWA entering into negotiations with DWSD to purchase their 72" water main that runs from Imlay City to Genesee County and agreeing to purchase water from DWSD for redundant purposes in-exchange for DWSD eliminating the **15%** premium rate to Flint during the three-year KWA construction period.

Recommendation:

A recommendation is being made to support the City of Flint joining KWA. Given, the conservatism of TYJT's estimates and the fact that all KWA estimates are cheaper than the 100% DWSD option, KWA appears to be the logical choice. EFM Kurtz has stated that he believes the KWA option is the cheaper alternative over time. There appears to be public support for the KWA project and EFM Kurtz has also stated that he believes that the Flint Mayor and City Council will support the KWA Project.

Also, the potential inclusion of Flint in the issuance of revenue bonds by Genesee County and the potential for KWA to assist the City in mitigating some of the DWSD premium charges could greatly reduce Flint's financial concerns.

There also appears to be good cooperation between City and County officials in discussing this project and this level of engagement and dialogue between city and county officials because of this project could continue to grow and lead to additional areas of cooperation and collaboration.

If further analysis on this issue is needed, please let me know.

Copy: Randall Byrne, State Administrative Manager; Office of Fiscal Responsibility

Attachment

S:\OFR\Cities\City of Flint\KWA Water Authority\UPDATED FLINT DWSD KWA ASSESSMENT.Version VIII.02-21-13.doc

STATE OF MICHIGAN CONTRACT NO. 271N3200089

CITY OF FLINT WATER SUPPLY ASSESSMENT

At the request of the Treasurer, Tucker, Young, Jackson, Tull, Inc. (TYJT) makes the following recommendation to the Department of Treasury concerning Flint's water supply alternatives. Based on the financial analysis performed of the various options presented by DWSD to continue treated water service to Flint compared to Flint being supplied by the new KWA untreated water system, TYJT believes that several of the options presented by DWSD are lower in cost currently and over the long run than the one offered by KWA. TYJT also believes that DWSD's most recent offer (subsequent to the submittal of our report) to build a smaller parallel water main from Imlay to Flint, funded by the entire DWSD base of customers, is the best solution offering the least cost alternative and the required redundancy by MDEQ.

Furthermore, since a majority of the KWA system has not been designed and none of the system has been constructed, there is an additional risk that the cost of the KWA system may actually be higher than estimated due to potential construction delays and unforeseen conditions. This risk to Flint could be substantial since the city is responsible for 30 percent of the KWA design and construction costs while still having to purchase water from DWSD during the construction period.

Finally, there are other issues that were identified in our report that may result in risks to Flint if it were to join KWA that should be considered by the Treasury in determining how Flint's potable water should be supplied. These issues are related to redundancy and reliability, other items affecting cost, and Flint's desire to control its own destiny related to its water supply. These are described further below.

- DWSD's supply to Flint is via a 72-inch water main from Imlay City. This main also supplies Imlay City, Mayfield and the Greater Lapeer County Utilities Authority (GLCUA). The volume of water contained within the 72-inch main is approximately 30 million gallons. If Genesee and Flint move to KWA then the three remaining communities' consumption would most likely not be large enough to maintain fresh water in DWSD's pipeline (due to loss of chlorine residual). DWSD may consider shutting down the 72-inch line completely due to the water quality concerns, which would then create an additional burden for Imlay, Mayfield and GLCUA to finance treated water supplies.
- The KWA supply option is counter to the Treasury's Competitive Grant Assistance Program (Formerly EVIP Grant). This program has been put in place to allow for communities to consolidate their services and save money. Two existing customers of DWSD (Flint and Genesee County) along with the potential of others customers (GLCUA, Mayfield, Imlay City) separating from another water system is in contradiction to the program.
- There is a concern over the ability of smaller systems (KWA) over larger systems (DWSD) to pay for future unfunded mandates and regulations. Obviously, identifying regulation requirements over 30 years is hard to determine. However, it is widely accepted that a large system has greater ability to respond to unfunded mandates because the cost can be distributed over a large customer base.
- Although Flint will be responsible for 30 percent of the construction cost, they will only have a minority vote on the KWA board. Furthermore, there are other communities (Lapeer County, the City of Lapeer, and Sanilac County) that sit on the board and vote. However, they are not purchasing water nor contributing to the construction costs. Their position on the KWA Board will not provide them an ability to "control their own destiny," as they have stated to the Treasury.

Subject: Mtg/call to discuss Flint Water
Location: Please see dial in information below.

Start: Thu 7/30/2015 8:00 AM
End: Thu 7/30/2015 8:45 AM

Recurrence: (none)

Meeting Status: Accepted

Organizer: Pleyte, Beth (Treasury)
Required Attendees: Muchmore, Dennis (GOV); Clement, Elizabeth (GOV); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)

Conference Call Number - PPI
Access Code PPI
Host Id - * PPI DM to host)

Subject:	Flint Water Meeting with Pastor Overton & Flint Water Coalition
Location:	Governor's Conference Room
Start:	Tue 8/4/2015 9:30 AM
End:	Tue 8/4/2015 10:30 AM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	Clayton, Stacie (GOV)
Required Attendees:	Hollins, Harvey (GOV); Muchmore, Dennis (GOV)
Optional Attendees:	Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); Wurfel, Brad (DEQ); Pleyte, Beth (Treasury); Dempkowski, Angela (Treasury)

Flint Attendees

Rev. Alfred Harris
Rev. Wallace Hill
Laura Sullivan
Melissa May
Clara McClinton
LeeAnne Walters
Rev. Allen Overton

Subject: T/C Jeff Wright Genesee County Drain Commission
Location: 810.287.1925

Start: Wed 9/2/2015 2:00 PM
End: Wed 9/2/2015 2:15 PM

Recurrence: (none)

Organizer: Muchmore, Dennis (GOV)

Re: KWA

Subject: T/C - Muchmore/Wurfel/Pallone re Flint Water
Location: PPI

Start: Fri 9/11/2015 12:30 PM
End: Fri 9/11/2015 1:00 PM

Recurrence: (none)

Meeting Status: Meeting organizer

Organizer: Muchmore, Dennis (GOV)
Required Attendees: Pallone, Maggie (DEQ); Wurfel, Brad (DEQ)

PPI

PPI Dennis to host

Subject: Conf Call re Flint Water
Location: PPI

Start: Thu 9/24/2015 3:30 PM
End: Thu 9/24/2015 4:00 PM

Recurrence: (none)

Meeting Status: Meeting organizer

Organizer: Muchmore, Dennis (GOV)
Required Attendees: Muchmore, Dennis (GOV); Hollins, Harvey (GOV); Clement, Elizabeth (GOV); Clayton, Stacie (GOV); Baird, Richard (GOV); VanSickle, Michele (GOV); Murray, David (GOV); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Wurfel, Brad (DEQ); Lyon, Nick (DCH); Lasher, Geralyn (DCH); Grijalva, Nancy (DCH); Saxton, Thomas (Treasury); Pleyte, Beth (Treasury); Walsh, John (GOV); Hall, Jean (GOV); Mcbride, Bill (GOV)
Optional Attendees: Busch, Stephen (DEQ); Brown, Eric (GOV); Hertel, Elizabeth (DCH); Wurfel, Sara (GOV)

PPI

PPI Harvey to host

Subject: RDS/DM/JA/EC/DW/NL/HH/MAnderson - Flint After Action Meeting
Location: Governor's Office, Romney

Start: Wed 10/21/2015 9:00 AM
End: Wed 10/21/2015 10:00 AM

Recurrence: (none)

Meeting Status: Accepted

Organizer: GovCalendar
Required Attendees: VanSickle, Michele (GOV); Baird, Richard (GOV); Wisniewski, Wendy (GOV); Clement, Elizabeth (GOV); Muchmore, Dennis (GOV); Agen, Jarrod (GOV); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Lyon, Nick (DHHS); Grijalva, Nancy (DHHS); Clayton, Stacie (GOV); Hollins, Harvey (GOV); Anderson, Madhu (DEQ)

Ken Sikkema, Chris Kolb, Eric Rothstein, Dr. Matt Davis, Dr. Lawrence Reynolds (by phone)

PPI

Agenda:

1) Introductions
2) Mission of Task Force
3) Background Info
4) Discussion of Timeline
5) Q & A from Task Force Members
6) Communications Strategy/Review Press Release

Attachments:

1. JA Memo
2. Resumes
3. Press Release

*****Staff*****
Chris Kolb chris@environmentalcouncil.org
Eric Rothstein erothste@grg-ltd.com
Ken Sikkema ksikkema@pscinc.com
Matt Davis mattdav@med.umich.edu

RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
EXECUTIVE OFFICE
LANSING

BRIAN CALLEY
LT. GOVERNOR

Contacts: Sara Wurfel or Dave Murray 517-335-6397	**FOR IMMEDIATE RELEASE** Wednesday, Oct. 21, 2015

Gov. Rick Snyder announces formation of Flint Water After Action Report Commission

Experts will provide ongoing monitoring of city water system

LANSING, Mich. – Gov. Rick Snyder today announced a new task force to review the state's actions regarding water usage and testing in Flint. The commission will conduct a thorough review and lay out recommendations on future guidelines for water testing. It will also monitor the transition of Flint's city water system back to the Great Lakes Water Authority, and its eventual transition to the Karegnondi Water Authority pipeline.

The commission will be co-chaired by Ken Sikkema of Public Sector Consultants and Chris Kolb, of the Michigan Environmental Council. Also serving will be Dr. Matthew Davis of the University of Michigan Health System, and Eric Rothstein, of the Galardi Rothstein Group.

"As stated previously, transitioning back to the Great Lakes Water Authority is a good first step to protecting public health in Flint, but it's not the last step," Snyder said. "Bringing in outside experts to evaluate our actions and help monitor and advise on technical issues will be key to continuing work on the comprehensive action plan and ensuring safe drinking water for all the citizens of Flint."

Ken Sikkema is a senior policy fellow at Public Sector Consultants, where he specializes in public finance, environment, and energy policy. Prior to joining the firm, Sikkema served in both the Michigan House and Senate, culminating with four years as Senate Majority Leader. He has also served as both an adjunct and visiting professor at Grand Valley State University.

Chris Kolb is president of the Michigan Environmental Council, a statewide coalition of 70 environmental, public health and faith-based nonprofit groups. Before joining the MEC, Kolb represented Ann Arbor in the state House for six years and served eight years on the Ann Arbor City Council. He has been president of the MEC for eight years.

Matthew Davis, M.D., M.A.P.P., is Professor of Pediatrics and Internal Medicine at the University of Michigan Health System and Professor of Public Policy at the Gerald R. Ford School at the University of Michigan, having joined the faculty in 2000. He is the founding Director of the C.S. Mott Children's Hospital National Poll on Children's Health and the National Voices Project. Dr. Davis also previously served as the Chief Medical Executive of the Michigan Department of Community Health/Department of Health and Human Services.

Eric Rothstein is a national water issues consultant and principal at the Galardi Rothstein Group. He served as an independent advisor on the creation of the Great Lakes Water Authority. Rothstein also has served as Jefferson County, Alabama's rate consultant and municipal advisor for litigation related to the county's bankruptcy and issuance of $1.7 billion in sewer warrants and led strategic financial planning for the City of Atlanta's Department of Watershed Management. He has more than 30 years of experience in water, wastewater and stormwater utility finance and rate-making assessments.

As Gov. Snyder previously stated, reconnecting with the authority will not completely resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control.

To best protect public health, state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure. The Michigan Departments of Environmental Quality is continuing to provide free water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

####

To: Governor Rick Snyder
From: JA
Re: Flint After Action Meeting
Date: October 20, 2015

Governor,

Attached is a draft press release to be reviewed with the after action team tomorrow morning.

In addition, Rich & Harvey are vetting & reaching out to potential Flint resident to join the task force:

1) Dr. Lawrence Reynolds, MD of Mott Children's Hospital, long standing and respected member of the Flint community, speaks his mind and very professional.

Rich will invite him to the meeting tomorrow by phone or in person.

Attached are resumes for Kolb, Dr. Davis, and Eric Rothstein.

Draft Agenda:

1) Introductions
2) Mission of Task Force
3) Background Info
4) Discussion of Timeline
5) Q & A from Task Force Members
6) Communications Strategy/Review Press Release

Suggested Goals for Task Force:

1) Thorough review of all steps taken in Flint regarding switch to Flint River and back GLWA.
    a. Create Timeline of actions
    b. Establish why each action was taken
2) Review of role of Feds, EM, State, City Council, and Mayor in process.
    a. Establish best practices for Feds, State, Local, and EM to work together in future situations
    b. Indicate where coordination could have been and should be improved
3) Review of DEQ & DHHS actions & protocols
    a. Did DEQ & DHHS follow the proper procedures?
    b. Do the procedures need to change?
4) Provide guidance for switch back to GWLA
    a. Ensure proper corrosion controls & testing is in place
    b. Highlight steps for eventual switch to Karegnondi
5) Testing Beyond Flint
    a. What practices need to change in communities outside of Flint?
    b. What change in law is recommended to ensure all Michiganders are drinking clean water?

Suggested Timeline:

The task force members have indicated that 2 months is the earliest possible time to properly conduct a full after action report. In reality, they suggest 3 months is more feasible. Given the holidays, a 2 month timeline puts us roughly right around Christmas. I would suggest we set a 3 month goal.

Oct 21: After Action Team Announced
Jan 8: Preliminary After Action Report Submitted for Internal Review
Jan 22: Final After Action Report Submitted
Week of January 25: Report Released

RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
EXECUTIVE OFFICE
LANSING

BRIAN CALLEY
LT. GOVERNOR

Contacts: Sara Wurfel or Dave Murray 517-335-6397	**FOR IMMEDIATE RELEASE** Wednesday, Oct. 21, 2015

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####

Subject: Conf Call per Wayne Workman re Flint - NK/WW/TS/DM/JA/HH
Location: PPI

Start: Fri 11/20/2015 11:00 AM
End: Fri 11/20/2015 11:30 AM

Recurrence: (none)

Meeting Status: Meeting organizer

Organizer: Muchmore, Dennis (GOV)
Required Attendees: Nick A. Khouri (KhouriN@michigan.gov); Workman, Wayne (TREASURY); Saxton, Thomas (Treasury) (SaxtonT@michigan.gov); Agen, Jarrod (GOV); Harvey Hollins (hollinsh@michigan.gov); Clayton, Stacie (GOV); Dempkowski, Angela (Treasury); Pleyte, Beth (Treasury); Doyle, Maureen (Treasury)

PPI

PPI Dennis to host

Subject:	RDS/DM/JA/EC/RB/DMurray/HH/DWyant/NLyon/MAnderson - Flint After Action Call
Location:	By Phone
Start:	Tue 11/24/2015 4:30 PM
End:	Tue 11/24/2015 5:00 PM
Show Time As:	Tentative
Recurrence:	(none)
Meeting Status:	Not yet responded
Organizer:	GovCalendar
Required Attendees:	Baird, Richard (GOV); Muchmore, Dennis (GOV); Clement, Elizabeth (GOV); Agen, Jarrod (GOV); Wisniewski, Wendy (GOV); Hollins, Harvey (GOV); Clayton, Stacie (GOV); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Lyon, Nick (DHHS); Scott, Allison (GOV); Murray, David (GOV); Anderson, Madhu (DEQ)

Call In:

PPI

Purpose: Per RB

Participants:
Matt Davis, Professor of Pediatrics & Internal Medicine U of M
Chris Kolb, President – Michigan Environmental Council
Ken Sikkema, Senior Policy Fellow – Public Sector Consultants
Eric Rothstein, Principal – Galardi & Rothstein Group
Larry Reynolds, Pediatrician Mott Children's Health Center

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Monday, September 15, 2014 11:37 AM
To: Byrne, Randall (Treasury); Kapp, Gene (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); West, Samantha (GOV); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Darnell Earley; Deasy, Thomas (MSP); Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Lee, Nichole (MSP); McGowan, Emmitt (MSP); Smith, Paul (GOV); Sands, Thomas (MSP); Sipes, Stephen (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Agenda for Wednesday, September 17, 2014
Attachments: Agenda 091714 Conf Call with Treasury.pdf

Good morning,

Please find attached the agenda for the Wednesday, September 17th conference call.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00am Phone Conference Agenda
September 17, 2014

1) **Public Safety Update – FPD, MSP, (FFD, if needed)**

Not Responsive

2) **Governor's Office Update – R. Baird, H. Hollins, B. Clement**

Not Responsive

3) **Lawsuits – Status, Issues**

Not Responsive

4) **Financial and Administrative Update**

Not Responsive

5) **City Council Update**

Not Responsive

6) **Blue Ribbon Committee on Governance**

Not Responsive

7) **Water Issues**
   a) Two more areas had five day boil-water notices – resolved, broken 24" valve was a major contributor to the problem.
   b) Flint will continue to investigate why conditions develop which are favorable for more severe problems to occur. Pursuing these investigations may include seeking additional professional assistance to review both systems and processes.

c) General Motors Water Issues – working through lawyers at this point. However, if this should become an issue for the GCDC with DWSD we would hope Treasury will be supportive of the GM-GCDC franchise customer agreement.

8) Messaging

Not Responsive

9) 9-1-1 Reconsolidation Plan

Not Responsive

10) Recruitment and Selection of City Administrator/Manager

Not Responsive

11) Other Items

PPI **access code** PPI

Created on: 09/12/14

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, September 30, 2014 8:42 AM
To: Byrne, Randall (Treasury); Kapp, Gene (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Darnell Earley; Deasy, Thomas (MSP); Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Lee, Nichole (MSP); McGowan, Emmitt (MSP); Smith, Paul (GOV); Sands, Thomas (MSP); Sipes, Stephen (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); West, Samantha (GOV)
Subject: Conference Call Agenda
Attachments: Agenda 100114 Conf Call with Treasury.pdf

Good morning,

Attached is the agenda for the conference call on **Wednesday, October 1st, 9:00 am.**

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00am Phone Conference Agenda
October 1, 2014

1) **Public Safety Update – FPD, MSP, (FFD, if needed)**

Not Responsive

2) **Governor's Office Update – R. Baird, H. Hollins, B. Clement**

Not Responsive

3) **Lawsuits – Status, Issues**

Not Responsive

4) **Financial and Administrative Update**

Not Responsive

5) **City Council Update**

Not Responsive

6) **Blue Ribbon Committee on Governance**

Not Responsive

7) **Water Issues**
   a) Flint will continue to investigate why conditions develop which are favorable for more severe problems to occur. Pursuing these investigations may include seeking additional professional assistance to review both systems and processes.

b) General Motors Water Issues – working through lawyers at this point. However, if this should become an issue for the GCDC with DWSD we would hope Treasury will be supportive of the GM-GCDC franchise customer agreement.

8) Messaging

Not Responsive

9) 9-1-1 Reconsolidation Plan

Not Responsive

10) Recruitment and Selection of City Administrator/Manager

Not Responsive

11) Other Items

PPI **access code** PPI

Created on: 09/26/14

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, January 20, 2015 3:06 PM
To: Kapp, Gene (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Carter, Jerry (MSP); Deasy, Thomas (MSP); Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); Hill, Darryl (MSP); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Lee, Nichole (MSP); McGowan, Emmitt (MSP); Smith, Paul (GOV); Byrne, Randall (Treasury); Sands, Thomas (MSP); Sipes, Stephen (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); West, Samantha (GOV)
Subject: Conference Call Agenda for January 21, 2015
Attachments: Agenda for Conference Call with Treasury 012115.pdf

Good afternoon,

Please find attached the agenda for the **Wednesday, January 21st, 9:00 am** conference call.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Gerald Ambrose, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00am Phone Conference Agenda

January 21, 2015

PPI

	Last Report	Status
1) Public Safety Update – FPD, MSP, (FFD, if needed)	Not Responsive	
2) Governor's Office Update – R. Baird, H. Hollins, B. Clement	Not Responsive	

	Last Report	Status
3) Finance and Administrative Update	Not Responsive	
4) City Council Update	Not Responsive	

	Last Report	Status
5) Water Issues		
a) MDEQ Violation Notice	Violation notice received 12/16/14 maximum contaminant level for TTHM exceeded. Public notice required. Notices sent out Jan 5, 2015. Most recent readings in compliance except one location. This issue has become the largest current challenge. Actions: community meetings being held, RFP for river water treatment consulting firm due back 1/26/15, selected MSU water expert will attend 1/21/15 Water Forum. Maor sent a letter to Gov. and others with his Flint Water Improvement Plan whic requests Federal and State assistance. See attached.	Update
b) Distressed Cities Grants	Are the announcements of awards due soon? City of Flint submitted two grant requests: Leak Detection and Sewage sludge Load Out Facility.	New
6) 9-1-1 Reconsolidation Plan	Not Responsive	
7) Transition Activities	Not Responsive	

Not Responsive

	Last Report	Status
8) Other Items	Not Responsive	

Attachments:
EM Memo to City Council
Mayor Walling's Letter on Water

CITY OF FLINT

OFFICE OF THE EMERGENCY MANAGER

Gerald Ambrose
Emergency Manager

TO: President Joshua Freeman, Flint City Council
Flint City Council Members

FROM: Jerry Ambrose, Emergency Manager

DATE: January 16, 2015

RE: Update

As the new Emergency Manager of Flint, I look forward to working with you over the next several months as we continue progress towards a sustainable and financially secure city government. As I stated at the time of my appointment, my focus over the next several months is to transition the city from oversight by an Emergency Manager to home rule under the guidance of a Receivership Transition Advisory Board. This will be done by continuing to achieve the expectations set forth in the Seven Point Transition Plan. Assuming those expectations are met, I currently expect such transition to occur sometime during the month of April, 2015.

The progress which has been made is detailed in the attached status report. While progress has been made, there are numerous steps yet to be taken. Many will involve the City Council, including:

- Final adoption of the Capital Improvements Plan
- Final adoption of ordinances regarding planning, budgeting, fund balance, deficit elimination, purchasing, and others which are necessary to establish the organizational structure upon transition
- Completion of training requirements for Council members
- Adoption of an updated Strategic Plan from the FY15/FY19 Plan to the FY16/FY20 Plan
- Adoption of budget priorities for development of the FY16/FY17 budget

I will be working with the City Council, Mayor Walling, City staff and the new City Administrator Natasha Henderson to assure that we can achieve these, and other necessary steps.

There are other issues which we will all continue to address. One primary issue, of course, is the issue of water quality. We all know it is a very serious concern, and our staff is working every day to improve water quality. The plan articulated by former Emergency Manager Darnell Earley, which does not include reconnecting to DWSD, remains in place at this time. This week, as promised, the City released an RFP to secure the services of a firm with experience in improving water quality where the source of water is a river. We also posted on the City's web site answers to some questions which have been raised in the community. We will continue to add information as it becomes available. We are also planning on an informational meeting next week to continue addressing citizen concerns.

Another issue is the low level of resources available to address public safety issues in the City. As you know, we commissioned an independent study of our police and fire organization in order to assess our capacity and to determine how to best organize our police and fire departments in light of their diminished resources. The results of that study are being presented next week at the Council's Public Safety meeting, and will provide guidance as we consider the upcoming FY16 and FY17 plans and budgets.

Finally the issues surrounding water and public safety emphasize the tenuous financial situation of the City – one which, while significantly improved, will remain tight. The five year financial projections done last year, and the adopted budgets for FY15 and FY16, showed financial stability for FY15 and FY26, but projected a very significant gat between revenues and expenses for FY17. Regardless of whether or not the City remains under the control of an Emergency Manager, balancing the FY17 budget in a financially responsible manner will be a challenging task. If decisions become necessary to further reduce the workforce and service levels, they will be very difficult, as there are no easy answers. Likewise, responding to demands for high levels of service and lower costs in the form of water rates or taxes will also be difficult.

Achieving our objectives will take time and effort for all involved. In the next week, the Finance Committee will be meeting on Wednesday to review the second quarter Progress Report on the Strategic Plan, and the same evening will be a City-sponsored forum on water issues. Next Thursday, the Public Safety Committee will meet to review the results of the ICMA Police and Fire study. The following Monday, January 26, will be the regular Council meeting, where the FY14 audit will be presented and where the Council will consider adoption of the Capital Improvement Plan, as well as second reading and final adoption of the strategic planning and budgetary ordinances.

Looking further forward, the Council will be engaged in updating the Strategic Plan, beginning with a workshop on Wednesday, January 28th. It is anticipated that a special Finance Committee meeting will be necessary for February 4th, in order that Council can consider adoption of the framework of the updated Strategic Plan on Monday, February 9th.

Over the next several weeks I will be working with City staff to develop a tentative calendar of events which will guide the budget preparation process and other items which I feel need to be completed prior to transition.

This is an aggressive agenda for all of us. I believe it is critical to have in place the many pieces necessary to both prepare for a successful transition, and more importantly, so that the City of Flint continues on a path of sustainability and financial stability.

Gerald Ambrose
Emergency Manager

Dayne Walling
Mayor

Jason Lorenz
Public Information Officer
(810) 237-2039
jlorenz@cityofflint.com

For Immediate Release

City of Flint Will Hold Public Water Presentation Wednesday, January 21, 2015 at 7:00pm in the City Hall Dome

Flint, Michigan – January 16, 2015 – The City of Flint will be hosting a water presentation on Wednesday, January 21, 2015 at 7pm. That presentation will be held in the City Hall Dome and will feature information detailing water treatment, water distribution and the steps being taken to ensure that citizens get water that meets all regulatory safety and quality standards. "We want the residents, businesses and visitors of Flint to know that the water in Flint is safe and that we are working every day to make improvements to our system to ensure that," said City DPW Director Howard Croft. "Our goal is make sure we get people the information on our efforts and assure them that we are on the right track with them."

DPW Director Croft and Utilities Administrator Daugherty Johnson will be joined on a panel by representatives from the Genesee County Drain Commissioner's office, the Michigan Department of Environmental Quality and LAN engineering. Written questions from the audience will be collected during the presentation and answered by the panel after the presentation.

–END–

Addressing Flint's Water Concerns

Recent events have raised concerns among many as to the safety and quality of the water provided by the City's utility system. The City is and continues to be committed to assuring that residents and visitors know that the water is safe and that those responsible for providing water are working every day to improve the quality of the water. The quality of the water does need improvement, but that is not to be confused with safety of the water. The recent notice by MDEQ clearly stated that the water provided by the utility system is safe to drink, but cautioned that some vulnerable groups may want to consult with their health care provider if they have concerns. The City remains committed to their efforts to assure that the water is safe for everyone and that quality is both improved and improving.

To date, the City has taken the following actions:

- As an integral part of the transition to the Flint River on a temporary basis, the MDEQ was consulted about the City's plans, and ultimately issued necessary permits to proceed. The City also engaged the services of the LAN engineering firm to guide the city in installing the necessary equipment to treat the water on an ongoing basis. This resulted in the development of a comprehensive drinking water plan.

- The City monitors its water quality on a daily basis to assure that water quality remains within established guidelines. With the variances in water temperature and the leakage and infiltration problems arising as the result of failure of parts of the distribution system, water quality did exceed, for a time, some of the established guidelines. This resulted in the issuance of the recent notices to the public. Upon receipt of information that some guidelines were exceeded, the City's priority focus was to bring water quality back within guidelines. Efforts taken to address non-compliance included increasing water flow through valve replacements and hydrant flushing and optimizing treatment processes.

- The City has committed to increasing communication with the public in order to inform water users factually of the issues which have arisen, to alleviate unnecessary concern and to identify the steps being taken to address the issues. This is being implemented through detailed and easy to understand educational materials being made available both online and at City Hall, as well as through ongoing public informational meetings.

- Most recently, in light of recent concerns raised by resident groups over the quality and safety of water, Department of Public Works Director Howard Croft and his staff collected questions from citizens during a recent public meeting. After reviewing these questions, DPW Director Croft and his staff set out to answer them in concise detail; the result of that work is a full Water System Questions and Answers document is available online. Along with the detailed information within, the document also contains links to other source documents and regulatory statutes found online which were used as reference. **"We want the residents, businesses and visitors of Flint to know that the water in Flint is safe**

and that we are working every day to make improvements to our system to ensure that," said Croft. "Our goal is make sure we get people the information on our efforts and assure them that we are on the right track with them." More documentation, including regular water quality monitoring reports, will be made available.

- Additionally, a number of public meetings have and will continue to take place. Two of the most recent of these took place at the Antioch Baptist Church and the Mott Community College Regional Technology Center. These meetings were held by concerned neighborhood groups and were attended by Mayor Walling and DPW Director Croft. At both meetings, citizens voiced their concerns and asked questions about water quality and the recent violation notice. Director Croft offered detailed answers to common questions, but also offered to investigate specific water issues raised by residents in which the City could offer assistance. Those in attendance came away with a better understanding of the issues surrounding the drinking water in their community.

- The City of Flint will be hosting a water presentation on **Wednesday, January 21, 2015 at 7pm. That presentation will be held in the City Hall Dome** and will feature information detailing water treatment, water distribution and the steps being taken to ensure that citizens get water that meets all regulatory safety and quality standards. City DPW Director Howard Croft and Daugherty Johnson, Utilities Administrator, will be joined on a panel by representatives from the Genesee County Drain Commissioner's office, the Michigan Department of Environmental Quality and LAN engineering. Written questions from the audience will be collected during the presentation and answered by the panel after the presentation.

- The City of Flint has also determined that in light of the serious concerns raised, it will secure the services of an external firm with expertise in managing drinking water quality to assess the steps that the city has taken, to make recommendations as to other steps to be taken, to oversee their implementation, and to monitor operations until the City's water source becomes the KWA. A Request for Proposal was issued on January 15, 2015, with proposals due back on January 26.

The DWSD Question:

As a result of the concerns raised, several community members have suggested that the City reconnect to the Detroit Water and Sewer Department (DWSD). DWSD has advised that they would be willing to allow such a reconnection without a hook-up fee. However, the City would be obligated to pay a fixed monthly charge of $846,700 plus the $14.92/Mcf cost of water itself and agree to a long term arrangement. The City's analysis of the DWSD proposal concludes that the City's cost would increase by more than $12 million per year at the proposed rates, and could increase even more as proposed rates are subject to change after July 1, 2015. This increase in costs would not be in the best interests of the City or its water users, as the City is committed to assuring safety and improving water quality by following its current plan, and reconnecting to DWSD would likely require deferment of existing capital improvements or an additional increase in rates.

City of Flint

Water System Questions & Answers

January 13, 2015

1101 S. SAGINAW STREET, RM B105, FLINT, MICHIGAN 48502 (810) 766-7135 Fax (810) 766-7249

CITY OF FLINT

Department of Public Works

Dayne Walling
Mayor

Gerald Ambrose
Emergency Manager

Howard Croft
Director

TO: City of Flint Residents

RE: Water Questions

DATE: January 13, 2015

Prelude

The decision to switch to the Karegnondi Water Authority as the City's permanent water source was made following extensive research and in-depth engineering studies. After entering into a contract with KWA and the subsequent termination of the existing water service contract by the Detroit Water and Sewerage Department, the same diligence was given in determining what source water to use while waiting for the community supported KWA water to arrive. The City concluded from this work that the Flint River presented a safe and financially responsible alternative water source. The decision to use the Flint River as an intermediate water source was approved by state regulatory officials in 2014 whereby the City was permitted by the Michigan Department of Environmental Quality to proceed with treatment of water from the Flint River.

The following questions were presented by concerned citizens, and the City's responses follow. This document will be put on the City's website for public viewing within the next several days.

1. What was the process by which the decision was made to switch from Detroit water to Flint River water? Who was responsible for what decisions?

On March 25th, 2013, after evaluating cost comparisons for a permanent water source, the Flint City Council, with support from the Mayor, voted 7 – 1 approving a resolution to purchase water from the Karegnondi Water Authority (KWA). On March 29th, resolution 2013EM041 was signed, authorizing the City of Flint to enter into a contract with the KWA.

On April 16th, 2013, then Emergency Manager Ed Kurtz, signed the contract effectively purchasing 18 MGD of capacity from the KWA.

On April 17th, 2013 Detroit Water and Sewerage Department (DWSD) sent a letter terminating the existing water service contract between the City of Flint and Detroit. With the termination set to take effect 12 months later on April 17th, 2014, a gap was created between the end of the DWSD contract and the start of the KWA.

On June 29th, 2013, following many preliminary discussions on how the City would fill the interim gap, a formal, all day meeting was held at the Flint Water Plant with all interested parties including City of Flint Officials (COF), representatives from the Genesee County Drain Commissioners Office (GCDC), the Michigan Department of Environmental Quality (DEQ), and the design engineers from the previous plant upgrade Lockwood, Andrews, and Newnam (LAN).

The purpose and agenda of the meeting was to determine the feasibility of the following items:

1. Using the Flint River as a Water Source
2. The ability to perform the necessary upgrades to the Treatment Plant
3. The ability to perform quality control
4. The ability for Flint to provide water to Genesee County
5. The ability to meet an April/May 2014 timeline
6. Development of a cost analysis

The conversation was guided with focus on the engineering, regulatory, and quality aspects of each item listed. The resulting determinations were made.

1. Yes, the Flint River would be more difficult to treat but is viable as a source.
2. Yes, it was possible to engineer and construct the upgrades needed for the treatment process.
3. Yes, with support from LAN engineering which works with several water systems around the state, quality control could be addressed.
4. No, the Flint treatment plant would not have the capacity needed to treat and distribute sufficient water to meet the documented needs of Flint and Genesee County.
5. Possible, it was determined that many obstacles needed to be overcome but completion by the April/May 2014 target was reachable.
6. Next steps from the meeting were for LAN to present the City with a proposal that would include engineering, procurement, and construction needs for the project along with cost estimates.

As a result of extensive evaluation, discussions with the professional engineers, and consulting the state regulators, the Department of Public Works along with the Finance Department recommended utilizing the Flint River as a temporary water source while waiting for the KWA to come online. The plan to accomplish this was accompanied with a construction timeline, a needs analysis for resources, and an FY 14 spending plan to complete the project.

2. Was it known prior to the switch that there would be problems managing total coliform and fecal coliform bacteria levels in the water?

It was understood that the Flint River would be subject to temperature variations, rain events, and have higher organic carbon than Lake Huron water and would be more difficult to treat. These facts were balanced against a licensed staff, LAN engineering's extensive experience in this field, advanced equipment that Flint has for treatment, and support from the DEQ.

3. What were the projected costs and benefits of the switch, and what have been the actual costs and benefits?

The engineered costs for upgrading the Flint Plant to treat KWA water from Lake Huron were projected to be ~$9,000,000. These upgrades need to be in place prior to KWA water reaching Flint and are coupled with an additional ~$3,500,000 in annual operational expenses for workforce additions, electricity costs, and process equipment for a total of ~$12,500,000.

The final year that the City of Flint purchased water from DWSD, the cost was $12,400,000 and that cost was projected to rise to ~$14,400,000 in 2014 and increase to ~$16,000,000 in 2015.

The financial benefit for switching to the river was the opportunity to divert that revenue towards capitalizing the upgrade expenditures needed to run the plant and the development of a capital improvement program for the aged infrastructure without a significant increase to the water bill. This aspect was figured into the cost analysis at the time of the recommendation.

Based on the current DWSD rate structure, it appears that the actual costs to purchase water this year would have been higher than projected, The fixed cost would have been ~$5,100,000 and the additional commodity or water costs would have resulted in another ~$11,000,000 given the City's current water usage. This would result in an estimated ~$16,000,000 in this year alone.

The upgrade expenditures stayed close to the engineered projections. The improvements at the water plant cost ~$7,000,000, the remediation and development of Bray Rd for lime disposal cost ~$1,700,000 and the increased operational costs so far this year are below the estimates and on target to finish the year at ~$3,000,000. These changes come to a total of ~$11,700,000 of necessary expenditures in the first year.

In addition to the ability to capitalize the upgrades, switching to the Flint River has allowed us to develop a Capital Improvement Plan for the Utility Department that will begin replacing pipe underground this spring and will account for overdue maintenance concerns such as valve replacements, and pipe lining extending the useful life of the system and allowing us to deliver better quality water.

It would have required close to a 30% raise in the water and sewer bill to accomplish this without using the Flint River as a source.

4. What were the causes of increased levels of trihalomethanes? Have those causes been sufficiently addressed? If not, what needs to be done to prevent this from occurring again in the future?

Just as low levels of chlorine can produce coliforms, high levels of chlorine can result in Disinfectant Byproducts (DBP) generating increased levels of trihalomethanes (TTHM). The DEQ requires this testing to occur once every three months at each of the testing sites and looks at an average over four quarters (one year) to determine the level to compare against the maximum contaminant level (MCL).

Research by the Science Advisory Board, the National Academy of Sciences, and the USEPA's Carcinogen Assessment Group predicts risk estimates associated with high levels of TTHM at an incremental risk of 3 to 4 people out of 10,000 that consume 2 liters of water over the MCL daily for 70 years.

The required remedy for this violation is to present the DEQ with an Operational Evaluation Report that assesses what caused the violation and what the proposed remedy is. The City generated a report to the DEQ in November 2014, which assesses each area of the Flint water system including water source, treatment process, and distribution system. The evaluation was complete with short and long term recommendations to optimize each area and the belief that the items listed would correct the violation and give Flint an increased ability to manage the system. Continued repairs on valves and colder temperatures have created a more consistent chemical footprint, and we have been producing a more consistent water quality.

5. What were the causes of increased levels of total coliform and fecal coliform bacteria levels? Have those causes been sufficiently addressed? If not, what needs to be done to prevent this from occurring in the future?

What we discovered is that as water travels through the 600 miles of the City's distribution mains it will, at times, reside in the system for up to 3 or 4 weeks. Water purchased from DWSD is drawn from Lake Huron, chlorinated, and then travels over 80 miles to reach the City. By the time the water reaches Flint it is stable and capable of withstanding this type of residency time within the system. Water drawn from the Flint River, specifically in summer months when the temperature is fluctuating, is more susceptible to being impacted by variables such as high residency times and increased chemical reaction.

The DEQ requires that a minimum of 100 tests be performed monthly for chlorine residuals at various locations throughout the system. When residual levels are too low, it creates an environment in which bacteria such as fecal coliform can grow. After switching sources, we encountered testing sites in June, 2014 that were consistently returning low residual levels. Several of these sites became areas that total coliform was eventually detected and ultimately boil water notices issued.

Low residual levels can sometimes trigger a positive test result for total coliform which is an indicator of a poor water environment but does not generally require a boil water notice. The normal course of action in these situations is to flush hydrants and introduce fresh water into the defined area. In certain areas this was successful and in other areas it was not. In a second course of action, the EPA also allows for water systems to increase the residual disinfectant, including chlorine, to a level and for a time necessary to protect public health. This information can be found in the EPA manual (40 CFR 141.65 & 141.130(d)). In contending with the low residual levels which represent a more immediate health concern along with the potential for tier 1 violations and boil water notices, we increased the chlorination treatment at times in order to combat the low residuals. This was also was an unsuccessful remedy and only after we located and replaced valves that were broken in the closed position on major transmission lines in these areas did the residual levels return to normal and have remained that way since.

There is still one test site, in the 2500 block of Flushing Rd, where we continue to experience low residual levels and we are actively pursuing efforts to locate more expected valve failures. The development of a hydraulic model of the system and the ability to use unidirectional flushing are tools that will assist us in mitigating areas where low residuals surface. Both of these are in progress of being developed by the engineering firm LAN and Potter Consulting who was also the author of our Water Reliability Study.

6. What are the public reporting requirements for these sorts of problems, and has the City met those requirements? What can be done to communicate in a more timely manner useful information about a public health threat such as the presence of cancer-causing chemicals in our drinking water?

The EPA 2010 "Revised Public Notification Handbook" has a specific breakdown of the elements required in public notifications and includes usable templates. The EPA has three different tiers associated with community water systems (CWS), each with specific timeframes and requirements that trigger upon issuance of the violation.

* Tier 1. CWS must provide public notification within 24 hours of a violation and continue this as directed by the primary agency.
* Tier 2. CWS must provide public notification within 30 days of a violation and continue this every three months until the violation is resolved
* Tier 3. CWS must provide public notification within one year and the EPA recommends repeat occurrences be provided in an annual notice

The current EPA violation is classified as a tier 2 violation and was issued December 16th, 2014.

Moving forward, the City of Flint is striving to increase communication with the public in a variety of ways.

- The city's new website will have current news and information updated on a regular basis.
- Increased data collection will be transitioned into real time ability to communicate with the residents through the Public Works area of the City's new website.
- Timely reporting of current test results on the new City website.

The establishment of these tools is in progress and expected to be implemented in the near future along with evaluating other avenues of communication.

7. **Is there any reason to think that these or similar problems will continue even after the shift is made to water from Lake Huron?**

The water coming from Lake Huron via KWA will be more consistent in temperature, have lower organic carbon, and will be less susceptible to variations but will have its own chemical footprint. The construction upgrades to the Flint Treatment Plant give us the ability to draw water from either source and should provide Flint the opportunity for testing and thereby streamlining the treatment process to match the Lake Huron chemical footprint before fully introducing it into the distribution system.

In addition to new source water, following the recommendations contained in the Operational Evaluation Report and the City's Water Reliability Study is the roadmap to being able to provide quality water.

Continuing to identify integrity issues and making preemptive repairs within our antiquated infrastructure are needed to maintain and provide a healthy system. Leak detection which is scheduled for the spring, hydraulic system modeling which includes unidirectional flushing is in progress now and will give us the information and tools to accomplish these goals.

8. **Who is responsible for making sure we don't have these sorts of problems, and did that person or those people fail to meet their responsibilities?**

The Utility Department is a Division underneath the Department of Public Works. The Public Works Director along with the Utilities Administrator will continue to work hand in hand with professional engineers, consultants, and the state regulatory agency DEQ in order to manage increased public communication and address any issues that arise going forward.

The DEQ requires that public water systems with population over 20,000 must have an F-1 state licensed operator in charge that oversees the operation of the treatment process. This license is the highest classification in the state that specializes in "complete treatment" The City of Flint has such a person on staff at the water plant and that person's responsibility is to determine the correct levels of chemical treatment, monitor the system, submit official test results to the state regulatory agency, and make necessary adjustments when contaminant levels are breached. All of these steps were followed and acknowledged by the DEQ.

The following is the list of supporting documents that will be available on the City's website for public viewing.

Cost Comparisons (the ROWE Study)

Upgrade Construction Timeline

EPA Chlorinating Information

Risk Assessment Information

Operational Evaluation Report

EPA 2010 revised Public Notification Handbook

The Current DEQ Violation Letter

Flint Water Reliability Study

Respectfully submitted,

Howard D. Croft
Public Works Director

Dayne Walling
Mayor, City of Flint

Gerald Ambrose
Emergency Manager

CITY OF FLINT

Dayne Walling
Mayor

January 18, 2015

The Honorable Rick Snyder
Governor, State of Michigan
P.O. Box 30013
Lansing, MI 48909

RE: Flint Water Improvement Plan

Dear Governor Snyder:

On behalf of the Flint community, I am writing to convey serious concerns about water quality and to request your support for my proposed Flint Water Improvement Plan. Access to safe and clean water is a basic human right, and, therefore, policy and budget decisions need to ensure that water is affordable and secure for everyone in Flint and all across Michigan It is essential there is City, State and Federal cooperation to address the challenges here and to meet the needs of vulnerable populations.

The Flint Water Improvement Plan is focused in five areas: safety, quality, access, investment and education. The plan puts safety and quality first because this is fundamental. It is designed to be a sustainable solution for the City of Flint and the community as we move towards a new permanent water supply from Lake Huron through the Karegnondi Water Authority. My plan offers new ideas and also builds on successful models of utility, energy and assistance programs at the State and Federal levels.

Safety & Quality

- 100% Safety is the standard
- City of Flint reports testing data to the public to assure safety and expands testing sites and frequency
- Bring on experienced river water treatment operational management in the City of Flint

Access

- Announce an amnesty program for Flint water service turn-ons and reduce the turn-on fee
- Develop a revised affordable payment plan policy to encourage customers to return
- Design Federal and State partnership to establish new Drinking Water Emergency Assistance Fund for the elderly and vulnerable families

Investment

- Accelerate water system improvements outlined in the City of Flint Capital Improvement Plan through Federal and State investments
    - State approves City of Flint's Distressed Cities Fund applications

- Federal and State support for replacement or forgiveness of payment to the Drinking Water Revolving Loan Fund due to Flint's status as a distressed community
- Federal and State grants for infrastructure improvements in alignment with the Flint Master Plan

* City Water Department implements budgeted FY15 projects including leak detection, valve repairs, new pipes and meter replacements

Education

* Develop a community partnership with universities to provide household and business customers with information on testing and conservation
* Ongoing partnership with Michigan Department of Human Services, United Way, Salvation Army and community organizations to provide information and water assistance with the Keep the Water Flowing Fund and support services
* Expand youth energy initiative to assist households with conservation and efficiency (piloted in summer 2014 with Northwestern High School students, EcoWorks and Consumers Energy)

It is also critical to restore the public confidence in Flint Water. The implementation of this plan must be accompanied by extensive community engagement including local elected officials. My objective is to work with you and your appointed officials, State Senator Ananich, State Representatives Phelps and Neeley, Congressman Kildee, community groups, businesses, churches, foundations, the Flint City Council, and all of the City of Flint and government personnel.

It is imperative that we communicate better and provide residents more information. I understand representatives from the Michigan Department of Environmental Quality will be joining a public forum this week at City Hall. This engagement going forward is vital so thank you for supporting their efforts. I think this issue of transparency is important for communities all across the State. I recommend a review of the applicable laws and policies and, at a minimum, a new requirement that water testing data be reported publicly no less than quarterly by law in all Michigan communities in Flint's population category.

Thank you for the consideration Governor. There is nothing more important in Flint right now than fixing the water problems. We must work together to identify funds to repair and update the water treatment facilities and city-wide infrastructure and to help those persons without access to clean water so that the entire Flint community has sustainable, safe, secure and affordable water now and into the future. This is an important issue for the state of our State of Michigan and I urge you to work with us to implement solutions.

Sincerely,

Dayne Walling, Mayor
City of Flint

CC: Flint City Council President Joshua Freeman; Congressman Dan Kildee; State Senator Jim Ananich; State Representative Sheldon Neeley; State Representative Phil Phelps; Flint Emergency Manager Jerry Ambrose

From: Scott, Allison (GOV)
Sent: Monday, January 26, 2015 8:56 AM
To: Snyder, PPI
Cc: Muchmore, Dennis (GOV); Clement, Elizabeth (GOV)
Subject: 2015 priorities
Attachments: 2015 Priorities draft v1 1 150124.docx

I added POC based on what I thought – everyone should feel free to add/edit.

2015 Priorities
January 24, 2015

Top Priorities

1.
2.
3.

Not Responsive

4.

Messages/Summits

5.
6.
7.
8.
9.
10.
11.
12.

Not Responsive

Legislative Priorities

13.
14.
15.
16.
17.
18.
19.

Not Responsive

Executive Branch Priorities

20.
21.
22.
23.
24.
25.
26.
27.
28.
29.
30.

Not Responsive

Local Priorities

31.
32.
33.
34.
35.
36.
37.

Not Responsive

38. Flint water system (?)
39. GLRWA

40. Not Responsive
41.

Federal Priorities

42. Not Responsive
43.
44.

Trips

45. Not Responsive
46.
47.
48.

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, April 14, 2015 2:54 PM
To: Kapp, Gene (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Carter, Jerry (MSP); Deasy, Thomas (MSP); Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); Hill, Darryl (MSP); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Lee, Nichole (MSP); McGowan, Emmitt (MSP); Natasha Henderson; Smith, Paul (GOV); Byrne, Randall (Treasury); Sands, Thomas (MSP); Sipes, Stephen (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); West, Samantha (GOV)
Subject: Bi-Weekly Conference Call
Attachments: Agenda for Conference Call with Treasury 041515.xlsx; warer quality plan 4 14 15.pdf; Update & Transition Progress April 13 2015.pdf; Update & Transition Progress April 13 2015 Media Release.pdf

Good afternoon,

Please find attached the agenda for the 9:00 am conference call scheduled for **Wednesday, April 15, 2015.**

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Gerald Ambrose, Emergency Manager
Natasha L. Henderson, City Administrator
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

	A	B	C	D	E
1	**City of Flint Wednesday 9:00am Phone Conference Agenda**				
2	**April 15, 2015**		**PPI** Access code **PPI**		
3			**Last Report**		**Status**
4	**1) Public Safety Update – FPD, MSP, (FFD, if needed)**				
5					
6					
7					
8					
9					
10					
11					
12	**2) Governor's Office Update – R. Baird, H. Hollins, B. Clement**				
13					
14					
15					
16	**3) Finance and Administrative Update**				
17					
18					
19					
20					
21					
22	**4) City Council Update**				
23					
24					
25					
26					
27	**5) Water Issues**				

Not Responsive

Not Responsive

Not Responsive

Not Responsive

	A	B	C	D	E
28		a) MDEQ Violation Notice	Water is within federal/state guidelines. Violation notice and water update mailed last week.		Complete
29		b) Drinking Water Revolving Fund	Order #2 was issued to restructure and amend the debt service payments on the DWRF Bonds, by postponing the principal payments. Funds to be used to finance GAC installation and other recommendations		Complete
30		c) Action plan on water quality	Action plan based on consultant's recommendations has been developed and shared with Council and advisory committees. Approval of contract for installation of granulated activated charcoal (GAC) filter (primary recommendation) received from Treasury.		Update
31					
32	**6) 9-1-1 Reconsolidation Plan**				
33					
34					
35	**7) Transition Activities**				
36					
37					
38					
39	**8) Other Items**				

Not Responsive

City of Flint
Water Quality Implementation Plan

Item	Cost	Owner & Support	April				May				June					July				August					September			
			6	13	20	27	4	11	18	25	1	8	15	22	29	6	13	20	27	3	10	17	24	31	7	14	21	28
Clean Plate Settlers	N/A	F-1 / DPW	Staff																									
Repair Clarifier	$10,000	F-1 / DPW			Contractor																							
Chemical Dosing & Levels	TBD	F-1 / DPW					Staff / LAN																					
GAC Purchase & Installation	$1,600,000	LAN / DPW	Design/DEQ Approval				Procurement				Mobilization					Installation												
Watermain Leak Detection	$900,000	S-1 / DPW	RFP / Response				Contract				Mobilization					Performance / Repairs												
Hydraulic Model & Flushing Program	$173,700	LAN / DPW	Model being populated with field data																									
2 Miles of Pipe Replacement	$2,163,000	S-1 / DPW	RFP / Response				Contract Signing				Mobilization					Construction												
Total	$4,846,700																											

CITY OF FLINT

OFFICE OF THE EMERGENCY MANAGER

Gerald Ambrose
Emergency Manager

TO: Josh Freeman, President, Flint City Council

From: Jerry Ambrose, Emergency Manager

Cc: Flint City Council
Mayor Dayne Walling
Natasha L. Henderson, City Administrator

DATE: April 13, 2014

RE: Update and Transition Progress

Thank you for your consideration of my request for authorization to apply for the $7 million loan from the State's Emergency Loan Board. This loan, if approved, will be used to eliminate the City's General Fund deficit ahead of the schedule in our current Deficit Elimination/Reserve Accumulation Plan. This will enable the City to move forward with building adequate reserves necessary to foster financial stability. This, along with the commitments established in ordinance to develop and maintain a multi-year budget based on a strategic plan and to address the funding of long term liabilities, Flint's financial solvency can be sustainable.

Thank you also for your consideration of the proposed consolidation of the 68th and 67th District Court, an action which has been long in the making. Recommended by the State Court Administrators Office and authorized by state law, the consolidation is planned to become effective January 2, 2016. The Memorandum of Understanding, approved today by the Genesee County Board of Commissioners, details the advantages the consolidation will have for the City of Flint. The city will see a reduction in costs of more than $8.4 million over the first 10 years, providing some much needed funds to support police services. Additionally the new court division is assured of at least 2 probation officers, something which the Court has not had for several years. And, as provided in both law and the agreement, judges will continue to be elected from within the City.

As you know, my focus over the past few months has been and continues to be transitioning the City from oversight by an Emergency Manager to home rule under the guidance of a Receivership Transition Advisory Board.

Much progress has been made in preparing for the transition, including action by the City Council to complete the following:

- Final adoption of the Capital Improvements Plan
- Final adoption of ordinances regarding planning, budgeting, funds balance, and deficit elimination
- Update of the Strategic Plan's Vison, Mission, and Goals
- Adoption of budget priorities to guide development of the FY16/FY17 budget

Additionally, our new City Administrator Natasha Henderson is on board and is assuming duties as the experienced and professionally trained chief administrative officer for the City.

There are several issues which we are continuing to address, including:

- Water safety, quality, and affordability continues to be a top priority. The City's water supply today is safe, as measured by the same MDEQ standards that have been in place for years, and steps are being taken to improve treatment and distribution processes in order to address issues of discoloration and odor, and to assure continued safety. Reviews of our pricing structure are also underway to assure that customers are treated equitably while generating sufficient revenue to operate the system.

  Public safety continues to be an area of critical concern. The independent study of our police and fire organization provided a number of recommendations focused on how to best deploy the resources we have, and also confirmed that the staffing levels afforded by our limited resources are extremely low in comparison to comparable municipalities. This emphasizes the critical continuing importance of renewing the two voter-approved public safety millages and working to assure continuing state support through the assignment of state troopers and through financial support of the City lock-up. Loss of any of this support would be a disaster for the City.

- Achieving and then maintaining financial stability will continue to require constant attention. Approval of the ordinances regarding financial stability and the anticipated approval of the $7 million loan provide additional tools with which to work. Attention will need to be paid to not only developing and adopting budgets for FY16 and FY17 but doing so in the context of understanding the impact of those budgetary decisions into the following three years. Essential to this is making the budget decisions which truly address achievement of the stated vison, mission and goals for the City as adopted by the City Council. Unfortunately, the challenges in doing so will be great, as the City will continue to be faced with the reality of a structural deficit, where for the foreseeable future current expenditure patterns exceed revenue streams – a difficult position, given the City's already low level of services. Complicating this further is the potential impact of the retiree health care lawsuit, once the final outcome is decided.

- Finally progress continues with modernizing the operations of the City and setting the framework for future development. With the Master Plan and Capital Improvement Plan in place, focus is now turning to implementation, including updating the Zoning Ordinance.

As we move forward with preparing for transition, there is much work yet to do. Today I am taking three actions consistent with our path:

- Adoption of an updated purchasing policy – I am enacting the revisions to the Purchasing policy which were reviewed by Council within the past few months. These changes are made with the goal of assuring that the process of obtaining goods and services is consistent with the expectations of the Strategic Plan. There must be proper oversight and transparency, with a goal of obtaining goods and services that best meet the needs of City departments. The process must ensure competitive procurement, conducted in a timely and ethical manner. The City Council has an important role in assuring compliance with the policy, which is not the same as conducting purchasing operations.

- Confirming the role of the City Administrator – Before the search for a new City Administrator was begun, it was determined, within the context of the Seven Point Transition Plan, that an experienced and professional City Administrator would be selected on the basis of an open competitive process, and that the duties of the City Administrator would be structured in a manner which assures the ability to manage and direct the administrative affairs of the City in a professional manner. While those duties and expectations were described in the job description of the City Administrator and in recruitment materials, I am now formally enacting them in Emergency Manager Order Number 3.

- Re-establishing salaries for Mayor and Council – As we are moving towards transition, the duties and responsibilities of the Mayor and City Council are expanding towards the traditional roles of a City operating under home rule. Council meetings are now held twice per month, with committee meetings held once per month. The Mayor is now much more engaged in a Chief Executive role. Consequently, I have determined to re-establish the salaries for Mayor and Council at the levels in place immediately prior to the appointment of an Emergency Manager in November, 2011. Continued receipt of the re-established salaries, however, is contingent upon attainment of certain training. The re-established levels, and the contingency regarding training, is found in Emergency Manager Order Number 4.

Over the next several weeks, there will be much work with respect to finalizing the loan application and developing the FY16 and FY17 budgets along with FY18, FY19, and FY20 projections. Work will also continue with implementing improvements of the water system, and reviewing our associated rate structure. Evaluation and implementation of the recommendations for best use of

police and fire resources will continue, including corrective action for the police evidence room issues. Summer street maintenance and repair programs, as well as sidewalk repairs will soon be underway. Public meetings regarding the zoning ordinance are being held, with a recommended updated ordinance expected for consideration in late spring. A revision to the City's business licensing ordinance is expected soon. These are but a few of the many activities to be expected as the City makes the best use of its resources to provide the best level of service it can within the resources it has.

I look forward to working with you as we move towards transition to home rule under the guidance of a Receivership Transition Advisory Board. Please contact me if you have any questions.

EMERGENCY MANAGER
CITY OF FLINT
GENESEE COUNTY MICHIGAN

ORDER No. 3

CITY ADMINISTRATOR

BY THE POWER AND AUTHORITY VESTED IN THE EMERGENCY MANAGER ("EMERGENCY MANAGER") FOR THE CITY OF FLINT, MICHIGAN ("CITY") PURSUANT TO MICHIGAN'S PUBLIC ACT 436 OF 2012, LOCAL FINANCIAL STABILITY AND CHOICE ACT, ("PA 436"); GERALD AMBROSE, THE EMERGENCY MANAGER, ISSUES THE FOLLOWING ORDER:

Pursuant to PA 436, the Emergency Manager has broad powers in receivership to rectify the financial emergency and to assure the fiscal accountability of the City and its capacity to provide or cause to be provided necessary services essential to the public health, safety and welfare; and

Pursuant to PA 436, the Emergency Manager acts in place of local officials, specifically the Mayor and City Council, unless the Emergency Manager delegates specific authority; and

Pursuant to PA 436, the Emergency Manager has broad power to manage the local government, and may issue orders to elected and appointed officials necessary to accomplish the purpose of the Act. An Order issued under PA 436 is binding on the person to whom it is issued; and

IT IS HEREBY ORDERED:

The City Administrator shall serve as the City's Chief Administrative Officer at the pleasure of the Mayor, City Council and Emergency Manager or Receivership Advisory Transition Board (hereinafter "Board"), in accordance with the provisions of her contact with the City of Flint

dated February 23, 2015, and is charged with implementing executive and legislative directives and policies of the Mayor and City Council, subject to oversight of the Board, including strategic planning and budgeting, and with directing the management of day-to-day-administrative activities and appointed staff officials.

Consistent with the City Administrator Employment Agreement and Position Description, and subject to the approval and directives of the Board, the City Administrator shall have the following authority, duties and responsibilities notwithstanding any provision of the City Charter or Code of Ordinances:

1. Serve, advise and report to the Mayor with respect to the Mayor's executive functions, as set forth in Charter §4-101.

2. Serve and advise the Council with respect to the Council's legislative functions, as set forth in Charter §3-101.

3. Serve, advise and report to the Emergency Manager, as required by Public Act 436, so long as an Emergency Manager is in place.

4. Serve, advise and report to the Board, including:
    a. Advise and report to the Board as required by Public Act 436;
    b. Fully comply and assist the Board in meeting all duties assigned to it by the governor pursuant to MCL 141.1563(h);
    c. Provide all budgetary information requested by the Board;
    d. Serve as the primary contact between the Board and the City, including any department heads, officers, attorneys, accountants, employees, and any other contractors or consultants hired by the City to assist the City Administrator or the City in the discharge of powers, duties, functions, and responsibilities;
    e. Promptly and effectively communicate with the Board regarding any matter that may have a significant financial impact on the City.

5. Direct City department heads in carrying out the daily activities of the City, in the assembly of financial and management information; and in the gathering and assembly of pertinent data and information and recommendations for the Mayor and City Council's consideration in making executive determinations and policy.

6. Translate executive decisions and policies of the Mayor into administrative procedures for the cost effective and efficient operation of the City.

7. Implement legislative action of the City Council.

8. Monitor and manage the administrative inter-activity of the City departments so the delivery of public services represents an efficient, effective, and coordinated effort.

9. Interact with other governmental agencies as requested by the Mayor or City Council.

10. Prepare and review correspondence, reports, speeches, resolutions, and other material for public relations purposes. Answers citizen and official inquiries regarding City policy matters.

11. In consultation with the Mayor, direct the assembly of information and items for consideration by the Council, and provide them to the City Clerk for inclusion on the appropriate agendas.

12. Regularly consult with the Mayor in the development of actions with respect to the Mayor's executive functions, and with matters relating to the daily administrative functions of the City, including the evaluation of the performance of department heads, and the resolution of customer service issues.

13. Except to the extent prohibited by or in material conflict with applicable laws and authorities, the City Administrator or designee shall attend all meetings of the City Council, both public and closed, with the exception of those closed meetings devoted to the consideration of any action or lack of action on, or pursuant to, this Agreement, or any amendment thereto, or the City Administrator's evaluation. The City Administrator shall advise members, and make recommendations consistent with policy objectives, strategic planning and administrative activities.

14. Attend public meetings and events; give presentations and information to the public regarding matters of City business.

15. Manage and oversee all department heads, division heads, managers and non-elected City employees. This shall include an annual written performance evaluation of all department heads, including those identified in paragraphs 15, 16 and 17.

16. Recommend, subject to the Mayor's approval, the following appointments:

    a. Chief of Police;
    b. Fire Chief;
    c. Director of Finance;
    d. Planning & Development Director;
    e. Director of Department of Public Works;
    f. Chief Legal Officer;
    g. Chief Personnel Officer.

17. Recommend, subject to the Council's approval, the following appointments: City Clerk and City Auditor.

18. With the exception of those positions set forth in paragraphs 16 and 17, appoint all department heads, division heads and management positions, including the City Treasurer, Purchasing Director and the City Assessor, subject to any collective bargaining agreement(s) that may be applicable.

19. Ensure that all appointment processes, whether by the Mayor, Council or City Administrator, are open, competitive, and administered by the Human Resources Department or a qualified recruitment firm, with selection of the most qualified candidate to be based on defined education, experience, and professional standards appropriate to the position.

20. All appointments made pursuant to paragraphs 15, 16 and 17 shall serve at the pleasure of the City Administrator based on performance review.

21. Review current and potential litigation and labor disputes with the City Attorney and Mayor, and as needed the Board, and have complete decision making authority on behalf of the City, on all matters of litigation and labor disputes, including the ability to settle or initiate lawsuits and resolve labor disputes. The Mayor and City Council shall be consulted on such matters prior to implementation.

22. Negotiate all collective bargaining agreements on behalf of the City.

23. Work collaboratively with the City Council, the Mayor, other City or State officials and the Board to successfully transition to the termination of receivership for the City by supporting, implementing, and maintaining the financial and operating plans and the reforms instituted by the City's emergency managers, including but not limited to, the financial and operating plan for the city under Section II Act 436, and by providing appropriate training and explanation of City operations.

24. Serve as an official City representative before the Board, State departments and agencies, and the Michigan Legislature, with assistance from the Finance Director and the Mayor.

25. Be responsible for and vested with full authority necessary to effectively direct and supervise the day-to-day operations of the City by seeing that all laws and ordinances are faithfully executed, preparing the proposed annual budget as recommended by the Finance Director and any accounting firm retained by the City, and supervising the expenditures of all sums appropriated to and the attainment of all objectives established for departments of the executive branch of the City and working collaboratively with all officers and officials to effectively execute daily operations.

26. Ensure that a rolling six-year capital improvement plan is annually prepared in accordance with applicable law and the City's Code of Ordinances. Coordinate with the Mayor on the annual preparation of a rolling two-year budget

27. Review, approve and co-sign with the Mayor all contracts on behalf of and entered into by the City and modify or terminate any current contract with the City.

28. Approve all financial policies, City policies and procedures, job descriptions and personnel policies for the City, after consultation with the Mayor and City Council.

29. Designate check signers on all City bank accounts.

30. Refer City Council communications to the appropriate City employee or investigate such matter(s) and inform the City Council of the results of such efforts. Provided, however, when responding to City Council referrals, the City Administrator shall have discretion to utilize the personnel and resources the City Administrator deems reasonable and so as to avoid unnecessary interruption of services or incurrence of unnecessary costs.

31. Any investigation by the City Council, as contemplated by Charter §3-205 and §3-206, including the power to subpoena witnesses, shall be subject to the City Administrator's review and approval, so as to avoid unnecessary interruption of services or incurrence of unnecessary costs.

32. In the event the Mayor or Council fails to perform any duty or take any required action after having been afforded a reasonable opportunity to do so, the City Administrator may perform the duty or function of the Mayor or Council upon approval of the Board.

This Order may be amended, modified, repealed or terminated by any subsequent Order issued by the Emergency Manager.

Dated: 4/16/15 By: _____

Gerald Ambrose
Emergency Manager
City of Flint

xc: State of Michigan Department of Treasury
Mayor Dayne Walling
Flint City Council
Inez Brown, City Clerk

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EMERGENCY MANAGER
CITY OF FLINT
GENESEE COUNTY MICHIGAN

ORDER No. 4

MAYOR/COUNCIL COMPENSATION

BY THE POWER AND AUTHORITY VESTED IN THE EMERGENCY MANAGER ("EMERGENCY MANAGER) FOR THE CITY OF FLINT, MICHIGAN ("CITY") PURSUANT TO MICHIGAN'S PUBLIC ACT 436 OF 2012, LOCAL FINANCIAL STABILITY AND CHOICE ACT, ("PA 436"); GERALD AMBROSE, THE EMERGENCY MANAGER, ISSUES THE FOLLOWING ORDER:

Pursuant to Public Act 436, the Emergency Manager has broad powers in receivership to rectify the financial emergency and to assure the fiscal accountability of the City of Flint and its capacity to provide or cause to be provided necessary services essential to the public health, safety and welfare; and

Pursuant to Public Act 436, the Emergency Manager acts in place of local officials, specifically the Mayor and City Council, unless the Emergency Manager delegates specific authority; and

Pursuant to Public Act 436, the Emergency Manager has broad power to manage the local government, and may issue Orders to elected and appointed officials necessary to accomplish the purpose of the Act; and

Pursuant to Public Act 436, City Council meetings are scheduled and conducted at the discretion of the Emergency Manager; and

An Order issued under PA 436 is binding on the person to whom it is issued; and

Prior to the appointment of Emergency Manager Michael Brown on December 1, 2011, Mayor Dayne Walling's annual compensation rate was $91,801; and

Prior to the appointment of Emergency Manager Michael Brown on December 1, 2011, Flint City Council President had an annual compensation rate of $20,856. City Council Vice President had an annual compensation rate of $20,381; and, City Councilmembers had an annual compensation rate of $19,907; and

As the City of Flint moves toward transition from governance and management by an Emergency Manager to Home Rule with oversight by a Receivership Transition Advisory Board, the responsibilities of the Mayor and Council are being increased, with the City Council now meeting regularly twice per month and Committees once per month

Mayor Walling's duties and responsibilities have increased and will further increase as the City of Flint progresses to local control; and

Mayor Walling has completed Level One of Michigan Municipal League (MML) core courses for municipal government and receipt of the MML Education Award, as required by Emergency Manager Order 2 dated April 18, 2011, and has otherwise accomplished the assigned tasks; and

Based on his increased duties, responsibilities and performance, Mayor Walling's salary is established at an annual compensation rate of $91,801, effective April 13, 2015; and

City Council's duties and responsibilities have increased and will further increase as the City of Flint progresses to local control; and

Based on increased duties, the annual compensation for the Flint City Council President shall be $20,856; the City Council Vice President shall be $20,381; and all other Council members shall be $19,907, effective April 13, 2015; provided however, that council members must have completed the Level One of Michigan Municipal League (MML) core courses for municipal government and received the MML Education Award by November 1, 2015, and as certified by the City Council President, or their annual compensation shall be reduced to $10,500 until such time as they have done so.

The compensation set forth above shall continue until the Local Officers Compensation Commission convenes to establish the compensation for the Mayor and Council in accordance with MCL 117.5c and Flint City Code, Chapter 2, Article III.

This Order is effective April 13, 2015.

This Order may be amended, modified, repealed or terminated by any subsequent Order issued by the Emergency Manager.

Dated: 4/14/15 By:

Gerald Ambrose
Emergency Manager
City of Flint

xc: State of Michigan Department of Treasury
Mayor Dayne Walling
Flint City Council
Inez Brown, City Clerk

ORDINANCE NO. 3865

An Ordinance to amend the City of Flint Code of Ordinances by amending Chapter 18, Taxation; Funds; Purchasing; Article IV, Purchases.

IT IS HEREBY ORDAINED BY THE PEOPLE OF THE CITY OF FLINT:

Sec. 1. That the Ordinances of the City of Flint shall be amended by amending Chapter 18, Taxation; Funds; Purchasing; Article IV, Purchases; by updating Sections 18-19 through 18-21.13; the renumbering of Section 18-21.14 to Section 18-21.20; and, the addition of new Sections 18-21.15 through 18-21.19, which shall read in its entirety as follows:

ARTICLE IV: PURCHASING

§ 18-18 SHORT TITLE.

This ordinance shall be known and may be cited as the "Purchasing Ordinance of the City of Flint."

§ 18-19 DEFINITIONS.

For ~~the~~ purposes of this article, the following terms, phrases, words, and their derivations shall have the meaning given ~~herein~~. When not inconsistent with the context, words used in the present tense include the future, words in the plural number include the singular number, and words in the singular number include the plural number. The word "shall" is always mandatory and not merely directory.

AGENCY. Any department, office, multiple member body or other organization of City government and includes any elective officer, appointee or person acting or purporting to act in the exercise of official duties, but shall not include the Board of Hospital Managers.

CHIEF EXECUTIVE. The Mayor of the City of Flint.

CITY. The City of Flint, Michigan.

CITY COUNCIL. The Council of the City of Flint.

CONTRACTUAL SERVICES. All telephone, gas, water, electric light and power service; towel and cleaning service; insurance; leases for all grounds, buildings, office or other space required by the agencies, with the exception of property under the control of the Housing Commission, Department of Community Development or any independent multiple member board established in accordance with the provisions of the **FLINT CITY** Charter; and the rental, repair or maintenance of equipment, machinery and other City owned personal property. The term shall not include professional and other contractual services ~~which~~ **THAT** have been proven to be unique and not subject to competition.

DIRECTOR. **The ~~Director of Purchases and Supplies~~ PURCHASING DIRECTOR AND/OR PURCHASING MANAGER.**

PROCUREMENT CARD.

SUPPLIES. All supplies, materials and equipment.

§ 18-20 ~~DIRECTOR OF PURCHASES AND SUPPLIES~~ PURCHASING DIRECTOR.

There is hereby created the position of **PURCHASING** Director ~~of Purchases and Supplies~~ who shall be a member of the Classified Service and shall be appointed by the ~~Mayor~~ **CITY ADMINISTRATOR** with the approval of the City Council. The **PURCHASING** Director shall perform all duties as provided ~~herein~~ **BY THIS ORDINANCE AND THE FLINT CITY CHARTER** under the direction of the ~~Mayor~~ **CITY ADMINISTRATOR** and shall perform ~~such~~ **ALL** other duties as may be prescribed by the ~~Mayor~~ **CITY ADMINISTRATOR.**

§ 18-21 DIRECTOR TO HAVE SUPERVISION OF PURCHASE AND DISTRIBUTION OF SUPPLIES, MATERIALS AND EQUIPMENT.

The Director of Purchases and Supplies shall have general supervision of the purchase and distribution of all supplies, materials and equipment and shall perform all duties required by law and shall have the powers and duties prescribed by this article.

§ 18-21.1 ADDITIONAL DUTIES AND RESPONSIBILITIES OF DIRECTOR.

The Director shall have the power and it shall be his duty:

(a) *Purchase or contract.* To purchase or contract for all supplies and contractual services needed by any agency in accordance with purchasing procedures as prescribed by this article and such rules and regulations as the Director shall adopt for the internal management and operation of the office of Director of Purchases and Supplies and such other rules and regulations as shall be prescribed by the Mayor as the purchasing functions related to executive staff offices and departments.

(1) *Exceptions prohibited.* The authority of the Director to negotiate all purchases for all agencies shall not be abridged by excepting by rule any particular agency.

(2) *Unauthorized purchases.* Except as herein provided, it shall be unlawful for any agency to order the purchase of any supplies or make any contract within the purview of this article other than through the Director and any purchase ordered or contract made contrary to the provisions hereof shall not be approved and the City shall not be bound thereby.

(b) *Other powers and duties.* In addition to the purchasing authority conferred in subsection (a) above and in addition to any other powers and duties conferred by this article, the Director shall:

(1) *Minimum expenditure.* Act to procure for the City the highest quality in supplies and contractual services at least expense to the City.

(2) *Encourage competition.* Discourage uniform bidding and endeavor to obtain as full and open competition as possible on all purchases and sales;

(3) *Purchasing analysis.* Keep informed of current developments in the field of purchasing, prices, market conditions and new products, and secure for the City the benefits of research done in the field of purchasing by other governmental jurisdictions, national technical societies, trade associations having national recognition, and by private businesses and organizations.

(4) *Forms.* Prescribe and maintain such forms as he shall find necessary to the operation of this article.

(5) *Standard nomenclature.* Prepare and adopt a standard purchasing nomenclature for agencies and suppliers.

(6) *Vendor's catalog file.* Prepare, adopt and maintain a vendor's catalog file.

(7) *Bulk purchases.* Exploit the possibilities of buying "in bulk" so as to take full advantage of discounts.

(8) *Tax exemptions.* So as to procure for the City all tax exemptions to which it is entitled.

(9) *Cooperation with Department of Finance.* Cooperate with the Department of Finance so as to secure for

the City the maximum efficiency in budgeting and accounting to the extent required by the Director of Finance.

(10) *Disqualification of bidders.* Have the authority, with the approval of the Mayor to declare vendors who default on the quotations or contracts irresponsible bidders and to disqualify them from receiving any business from the City for a stated period of time. Any vendor who feels himself aggrieved by the decision may, within ten (10) days of notification of such determination, make objections thereto, in writing, to the City Clerk. Within fifteen (15) days of the receipt of said notification, the City Council shall, after public hearing, make a final determination as to the disqualification of the vendor, which determination shall be final.

§ 18-21.2 REQUISITION AND ESTIMATES.

(a) *Requisitions or estimates.* All agencies, either by or with the authorization of the head of the department under which the agency operates, shall file with the Director detailed requisitions or estimates of their requirements in supplies and contractual services in such manner, at such times, and for such future periods as may be required for budgeting and accounting purposes.

(b) *Unforeseen requirements.* An agency shall not be prevented from filing, in the same manner, with the Director at any time a requisition or estimate for any supplies and contractual services, the need for which was not foreseen when the detailed estimates were filed.

§ 18-21.3 ENCUMBRANCE OF FUNDS.

Except in cases of emergency, the Director shall not issue any order for delivery on a contract or open market purchase until the Chief Finance Officer shall have certified, after pre-audit, that there is to the credit of the agency concerned a sufficient unencumbered appropriation balance, in excess of all unpaid obligations, to defray the amount of such order.

(a) Vendor information shall be furnished on a monthly basis to City Council.

The Director shall furnish to the Council by the fifteenth day of each month a list of all vendors, with or without a contract, to whom money was owed as of the last day of the preceding month. In addition to the name of each vendor the list shall contain each vendor's address, and, as of the last day of the preceding month, the total amount of money owed to each vendor, and how much of the amount owed each vendor has been due for more than 30 days and more than 60 days.

A violation of this ordinance is considered a misdemeanor, punishable by a $500.00 fine, and/or 90 days in jail.

§ 18-21.4 COMPETITIVE BIDDING REQUIRED.

All purchases of supplies, contractual services, or sales of personal property which is unsuitable for continued use, except as specifically provided herein, shall be based wherever possible on competitive bids.

§ 18-21.5 FORMAL CONTRACT PROCEDURE.

All supplies and contractual services, except as otherwise provided herein, when the estimated cost thereof shall exceed $3,000.00 shall be purchased by written contract or purchase order from the lowest responsible bidder, after due notice inviting proposals; and no purchase in excess of $3,000.00 shall be made by the Director and/or Manager, except upon the approval of the City Council. In the event that purchases made without City Council approval from any one supplier exceed $3,000.00 in any fiscal year, City Council shall be informed of such in writing by the Director of Purchases and/or Purchasing Manager. All sales of personal property with an estimated value in excess of $3,000.00 shall be

sold by written contract or bill of sale to the highest responsible bidder, after due notice inviting proposals.

(a) *Notice inviting bids.*

(1) *Electronic media and/or newspaper.*

a. Notices inviting bids/proposals shall be published at least five (5) days preceding the last day set for the receipt of proposals on the City of Flint website, any electronic media service, or at least one newspaper of general circulation in the City, if funding is available.

b. *Scope of notice.* The electronic media and/or newspaper notice required herein shall include a general description of the articles to be purchased or sold, shall state where bid blanks and specifications may be secured, and the time and place for opening bids.

(2) *Bidder's list.* The Director and/or Manager shall also solicit sealed bids from all responsible prospective suppliers who have requested their names be added to a "bidders list," which the Director and/or Manager shall maintain by directing prospective suppliers to the available electronic media source or by sending them a copy of such newspaper notice or such other notice as will acquaint them with the proposed purchase or sale. In any case, invitations sent to the vendors on the bidders' list shall be limited to commodities that are similar in character and ordinarily handled by the trade group to which the invitations are sent.

(b) *Bid deposits.* When deemed necessary by the Director and/or Manager, bid deposits shall be prescribed in the public notice inviting bids. Unsuccessful bidders shall be entitled to return of bid deposits upon award of the contract. A successful bidder shall forfeit any bid deposit required by the Director and/or Manager upon failure on his part to enter a contract within ten (10) days after the award.

(c) *Bid opening procedure.*

(1) *Sealed.* All bids and proposals shall be submitted via either the electronic media source or in a sealed envelope to the Director and/or Manager and shall be identified as such electronic means or on the face of the envelope.

(2) *Opening.* Bids shall be opened in public at the time and place stated in the public notices and shall be witnessed by the City Clerk's designee.

(3) *Tabulation.* A tabulation of all bids received shall be available for public inspection.

(d) *Rejection of bids.*

(1) The Director and/or Manager shall have the authority to reject any bids, or any part thereof, when the public interest shall be served thereby; provided, however, that in such event the public interest shall be clearly stated in the notice of rejection.

(2) *Bidders in default to City.* The Director and/or Manager shall not knowingly accept a bid from a contractor who is in default on the payment of taxes, licenses or other monies due the City. Contracts with bidders who are found to have been in default at the time of award of the contract shall be voidable.

(e) *Award of contract.*

(1) *Authority of the Director and/or Manager.* The Director and/or Manager shall have the authority to award

contracts within the purview of this article, subject to the approval of the City Council.

(2) *Lowest responsible bidder.* Contracts shall be awarded to the lowest responsible bidder. In determining the "lowest responsible bidder," in addition to price, the Director and/or Manager shall consider the following factors, among others:

a. The ability, capacity and skill of the bidder to perform the contract or provide the services required;

b. Whether the bidder can perform the contract or provide the service promptly, or within the time specified, without delay or interference;

c. The character, integrity, reputation, judgment, experience and efficiency of the bidder in business;

d. The quality of performance of previous contracts or services

e. The previous and existing compliance by the bidder with laws and ordinances relating to the contract or services;

f. The sufficiency of the financial resources and ability of the bidder to perform the contract or provide the services;

g. The quality, availability and adaptability of the supplies, or contractual services, to the particular use required;

h. The ability of the bidder to provide future maintenance and service for the use of the subject of the contract;

i. The number and scope of conditions attached to the bid;

j. Compliance with the City's affirmative action program;

k. Other factors involved. A contract may be awarded to a bidder based on factors other than the lowest bid, including but not limited to the bidder's competence, reliability and/or skills; provided that the Director and/or Manager submits a report detailing such factors to City Council subject to its approval.

(f) *Award to other than the low bidder.* From the bidders so determined to be responsible, the Director and/or Manager shall award the contract to the lowest such bidder; provided, that in determining the lowest bid, the Director and/or Manager shall consider the bona fide business location of the bidder. If the lowest responsible bidder is not located within the City limits of Flint, and the lowest bid of the responsible bidders located within the City limits of Flint does not exceed that of the lowest nonlocal bidder by more than seven percent (7%), then the Director and/or Manager may determine said lowest local bidder to be the lowest responsible bidder, and make the award to such local bidder accordingly, subject to the approval of the City Council. Additionally, if the lowest responsible bidder is not located within the limits of the City of Flint, and the lowest bid of the responsible bidder located within the County of Genesee does not exceed the bid of the lowest nonlocal bidder by more than three and one half percent (3.5%), then the Director and/or Manager may determine said lowest Genesee County bidder to be the lowest responsible bidder, and make the award to such Genesee County bidder accordingly, subject to the approval of the City Council.

(g) *Irresponsible bidder; statement required.* When bidders are determined not to be responsible bidders and their bids would have been lower than the bid actually awarded, a full and complete statement of the reason for such determination shall be prepared by the Director and/or Manager and filed with the other papers relating to the transactions.

(h) *Performance bonds.* The Director and/or Manager shall, in his discretion, have the authority to require either a performance bond, cash deposit or surety, before entering a contract, in such amount as he shall find reasonably necessary to protect the best interests of the City.

(i) *Unique services.* Professional or personnel contractual services which have been proven to be unique and not subject to the requirements of the competitive bidding process in excess of $2,000.00 cumulative for a fiscal year shall require City Council approval unless otherwise provided by the Charter or other law.

(j) *Prohibition against subdivision.* No contract or purchase order shall be subdivided to void the requirements of this section.

(k) *Termination of contract.* No contract or purchase which was made or awarded with the approval of the City Council may be terminated by the Director and/or Manager or any other member of the Executive Branch without first obtaining the approval of City Council for such termination.

§ 18-21.6 OPEN MARKET PROCEDURE.

All purchases of supplies, contractual services, or sales of personal property which is unsuitable for continued use, which has an estimated value of less than three thousand five hundred dollars ($3,500.00), may be made in the open market, without proper advertisement and without observing the procedure prescribed in § 18-21.5 for the award of formal contracts.

(a) *Minimum number of bids.* All open market purchases shall, whenever feasible, be based on at least three (3) competitive bids, and shall be awarded to the lowest responsible bidder in accordance with the standards set forth in § 18-21.5(e)(2).

(b) *Notice inviting bids.* The Director shall solicit bids by:

(1) Direct mail request to prospective vendors; or

(2) By telephone; or

(3) By public notice posted on the bulletin boards of the City Hall.

(c) *Recording.* The Director shall keep a record of all open market orders and the bids submitted in competition thereon, and such records shall also be open to public inspection.

§ 18-21.7 PETTY EXPENDITURES REVOLVING FUND.

Petty cash funds may be established within any agency with the approval of the Director of Finance. From this fund shall be paid all purchases not in excess of $100.00 each, made by the heads of agencies for incidentals, with the approval of the Director. The Director shall promulgate rules and regulations for use of the petty expenditures revolving fund.

§ 18-21.8 CENTRAL WAREHOUSING; STOREROOM'S REVOLVING FUND.

(a) *Administration.* The Director shall control and supervise storerooms and warehouses and shall administer the storeroom's revolving fund.

(b) *Storeroom's revolving fund.* There is hereby created a storeroom's revolving fund.

(1) *Accounting procedure.* Requisitions from supplies, in a storeroom or warehouse shall be credited by the Director to the storeroom's

revolving fund by a charge against the appropriation of the using agency.

(2) *Inventory.* The Director shall maintain a perpetual inventory record of all materials, supplies or equipment stored in storerooms and warehouses.

§ 18-21.9 PRICE AGREEMENT CONTRACT PROCEDURE.

The head of the agency shall have the authority to submit requisitions to the Director for supplies available under the terms of a price agreement.

§ 18-21.10 EMERGENCY PURCHASES.

(a) *Emergency defined.* For the purpose of this section only, an *EMERGENCY* constitutes a situation that threatens the public health, safety or welfare, and:

(1) Is unforeseeable;

(2) Calls for immediate action; and

(3) Cannot be responded to using established procurement methods.

(b) *By Director and/or Manager.* In case of an emergency that requires the immediate purchase of supplies or contractual services, the Director and/or Manager shall be empowered to secure by open market procedure and at the lowest obtainable price, any supplies or contractual service:

(1) Without City Council approval for amounts not exceeding $10,000.00 per vendor during a six (6) month period;

(2) With City Council approval for amounts exceeding $10,000.00 per vendor during a six (6) month period.

(3) Recorded explanation. The Director and/or Manager shall immediately file a report explaining the circumstances of an emergency purchase with the City Clerk to be entered into the minutes of the City Council and remain open to public inspection.

(c) *By head of department.* In case of an emergency which may result in the loss of:

(1) *Life.* The head of any agency may purchase directly any supplies or services necessary under the circumstances then in existence; or

(2) *Property.* The head of any agency may purchase directly only those supplies or services not to exceed $10,000.00 during a six (6) month period without the prior approval of City Council.

(d) *Violation.* Any person in violation of making an unauthorized expenditure as outlined in this section shall be guilty of a misdemeanor punishable by a $500.00 fine and/or ninety (90) days in jail upon conviction of the Court.

§ 18-21.11 INSPECTION AND TESTING.

The Director may inspect, or supervise the inspection of all deliveries of supplies or contractual services to determine their conformance with the specifications set forth in the order or contract.

(a) *Inspection by agency.* The Director shall have the authority to authorize agencies having the staff and facilities for adequate inspection to inspect all deliveries made to such agencies under rules and regulations which the Director shall prescribe.

(b) *Tests.* The Director shall have the authority to require chemical and physical tests of samples of deliveries which are necessary to determine their quality and conformance with the specifications. In the performance of such tests, the Director shall have the authority to make use

~~of laboratory facilities of any agency of the City government or of any outside laboratory.~~

~~§ 18-21.12 SURPLUS SUPPLIES.~~

~~All using agencies shall submit to the Director, at such times and in such form as he shall prescribe, an inventory of all supplies which are no longer used or which have become obsolete.~~

~~(a) *Transfer.* The Director shall have the authority to transfer surplus supplies to other agencies.~~

~~(b) *Sale.* The Director shall have the authority to sell all supplies which have become unsuitable for public use, or to exchange the same for, or trade in the same on, new supplies.~~

~~(1) *Competitive bidding.* Sales under this section shall be made to the highest responsible bidder and in conformance with §§ 18-21.5 or 18-21.6 hereof whichever is applicable.~~

~~§ 18-21.13 COOPERATIVE PURCHASING.~~

~~The Director shall have the authority to join with other units of government in cooperative purchasing plans when the best interests of the City would be served thereby.~~

§ 18-21 PURPOSE AND SCOPE.

THE VISION FOR THE CITY IS A WELL-MANAGED, FINANCIALLY STABLE, AND ACCOUNTABLE GOVERNMENT FOCUSED ON CREATING AND MAINTAINING A VIBRANT AND GROWING COMMUNITY THAT WILL ATTRACT AND RETAIN RESIDENTS, BUSINESSES, STUDENTS AND VISITORS AND IMPROVE QUALITY OF LIFE. THE CITY'S MISSION IS TO ASSURE THAT RESIDENTS, BUSINESSES, STUDENTS AND VISITORS RECEIVE MUNICIPAL SERVICES IN A CUSTOMER FRIENDLY AND FINANCIALLY RESPONSIBLE MANNER.

STRUCTURING CITY OPERATIONS TO ACHIEVE THIS MISSION AND VISION HAVE REQUIRED THE ESTABLISHMENT OF LONG RANGE STRATEGIC PLANNING AND BUDGETING. EQUALLY IMPORTANT IS ESTABLISHING THE PRINCIPLES BY WHICH GOODS AND SERVICES WILL BE OBTAINED.

THE PROCESS OF OBTAINING GOODS AND SERVICES MUST BE CONSISTENT WITH THE STRATEGIC PLAN. THERE MUST BE PROPER OVERSIGHT AND TRANSPARENCY, WITH A GOAL OF OBTAINING THE GOODS AND SERVICES THAT BEST MEET THE NEEDS OF CITY DEPARTMENTS. THE PROCESS MUST ENSURE COMPETITIVE PROCUREMENT CONDUCTED IN AN ETHICAL AND TIMELY MANNER IN ORDER FOR THE CITY TO CARRY OUT ITS DUTIES. USE OF CITY RESOURCES FOR PERSONAL USE IS GROUNDS FOR TERMINATION OF EMPLOYMENT AND POSSIBLE CRIMINAL PROSECUTION.

PURCHASING GOODS AND SERVICES SUPPORTS THE BUSINESSES AND COMMUNITIES IN WHICH THE BUSINESSES RESIDE. ACCORDINGLY, WHEN FEASIBLE, IN TERMS OF QUALITY, COST, AND ACCESSIBILITY, THE CITY SHOULD MAKE GOOD FAITH EFFORTS TO PROCURE GOODS AND SERVICES FROM BUSINESSES WITH A PHYSICAL LOCATION WITHIN THE CITY LIMITS, AND IF NOT ABLE TO DO SO, TO MAKE SIMILAR EFFORTS WITH RESPECT TO BUSINESSES PHYSICALLY LOCATED IN GENESEE COUNTY AND/OR SURROUNDING COMMUNITIES.

§ 18-21.1 ASSIGNMENT OF RESPONSIBILITY.

THE FLINT CITY COUNCIL SHALL BE RESPONSIBLE FOR PERIODICALLY REVIEWING AND UPDATING THIS ORDINANCE, FOR MONITORING PURCHASING ACTIVITIES AS DESCRIBED WITHIN THIS ORDINANCE, AND APPROVING PURCHASES AS DESCRIBED WITHIN THIS ORDINANCE TO ASSURE THAT GOODS AND SERVICES OBTAINED BEST MEET THE NEEDS OF CITY DEPARTMENTS AND ARE OBTAINED IN A COMPETITIVE, TRANSPARENT, ETHICAL AND TIMELY MANNER THAT PERMITS THE CITY TO CARRY OUT ITS DUTIES.

THE MAYOR SHALL BE RESPONSIBLE FOR EXECUTIVE OVERSIGHT OF THE PURCHASING OF ALL GOODS AND SERVICES FOR THE CITY, FOR APPROVING PURCHASES AS PROVIDED IN THIS ORDINANCE, AND FOR ASSURING THAT CITY COUNCIL IS PROVIDED TIMELY INFORMATION TO ENABLE IT TO CARRY OUT ITS OVERSIGHT RESPONSIBILITIES.

THE CITY ADMINISTRATOR SHALL PROVIDE ADMINISTRATIVE OVERSIGHT OF THE PURCHASING FUNCTION, FOR APPROVING PURCHASES AS PROVIDED IN THIS ORDINANCE, AND FOR PROVIDING THE CITY COUNCIL TIMELY INFORMATION TO ENABLE IT TO CARRY OUT ITS OVERSIGHT RESPONSIBILITIES.

THE FINANCE DIRECTOR SHALL SUPERVISE THE ACTIVITIES OF THE PURCHASING DIRECTOR, AND SHALL WORK WITH THE PURCHASING DIRECTOR, DEPARTMENT HEADS AND OTHERS TO ASSURE THAT PROPER BUDGETARY AUTHORITY EXISTS FOR THE PURCHASE OF GOODS AND SERVICES.

THE PURCHASING DIRECTOR SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF ALL GOODS AND SERVICES FOR THE CITY UNLESS OTHERWISE PROVIDED IN THIS ORDINANCE. THE PURCHASING DIRECTOR SHALL ASSURE THAT ALL GOODS AND SERVICES ARE OBTAINED IN A COMPETITIVE AND ETHICAL MANNER AND IN COMPLIANCE WITH THE PROCESSES ESTABLISHED IN THIS ORDINANCE. THE PURCHASING DIRECTOR SHALL ALSO APPROVE PURCHASES AS PROVIDED IN THIS ORDINANCE. THE PURCHASING DIRECTOR SHALL ALSO DEVELOP AND RECOMMEND TO THE MAYOR THE APPROPRIATE PROCESSES AND PROCEDURES TO MEET THE REQUIREMENTS OF THIS ARTICLE.

DEPARTMENT HEADS AND PERSONNEL DESIGNATED BY DEPARTMENT HEADS SHALL HAVE THE AUTHORITY TO OBTAIN GOODS AND SERVICES AS AUTHORIZED IN THIS ARTICLE. THE DESIGNATED PERSONNEL SHALL ALSO PROVIDE THE PURCHASING DIRECTOR WITH THE INFORMATION NEEDED TO ASSURE THAT THE GOODS AND SERVICES TO BE OBTAINED ARE IN THE BEST INTERESTS OF THE CITY.

ALL PERSONS WHO ARE AUTHORIZED TO PURCHASE GOODS AND SERVICES FOR THE CITY SHALL BE RESPONSIBLE FOR ASSURING THAT PURCHASES MADE IN THE BEST INTERESTS OF THE CITY, ARE OBTAINED ON A COMPETITIVE BASIS AS REQUIRED BY THIS ARTICLE, AND ARE DONE IN AN ETHICAL MANNER.

§ 18-21.2 DELEGATION OF AUTHORITY.

THERE MUST BE PROPER OVERSIGHT AND TRANSPARENCY WITH RESPECT TO THE PURCHASE OF

GOODS AND SERVICES, WITH A GOAL OF OBTAINING GOODS AND SERVICES THAT BEST MEET THE NEEDS OF CITY DEPARTMENTS. THE PROCESS MUST ENSURE COMPETITIVE PROCUREMENT CONDUCTED IN A TIMELY AND ETHICAL MANNER IN ORDER FOR THE CITY TO CARRY OUT ITS DUTIES. ALL PARTIES DELEGATED AUTHORITY WITH RESPECT TO ALL PURCHASES OF GOODS AND SERVICES ARE CHARGED WITH THE RESPONSIBILITY OF MAKING PURCHASES IN A COMPETITIVE AND ETHICAL MATTER, AND FOR ADHERING IN ALL RESPECTS TO THE CITY OF FLINT CODE OF CONDUCT POLICY.

THE AUTHORITY WITH RESPECT TO THE PURCHASE OF ALL GOODS AND SERVICES IS DELEGATED AS PROVIDED HEREIN:

DEPARTMENT HEADS AND EMPLOYEES SPECIFICALLY DESIGNATED BY DEPARTMENT HEADS, AND APPROVED BY THE PURCHASING DIRECTOR, SHALL BE ELIGIBLE TO BE ISSUED PROCUREMENT CARDS, AND ARE AUTHORIZED TO PURCHASE GOODS AND SERVICES FOR CITY PURPOSES, PROVIDED FUNDS ARE APPROPRIATELY BUDGETED AND THAT THE DEPARTMENT HEAD OR DESIGNATED EMPLOYEE FORMALLY AGREE TO ALL PROVISIONS REGARDING THE USE AND RECONCILEMENT OF THE CARDS, AS PRESCRIBED BY THE PURCHASING DIRECTOR. THE AMOUNT OF GOODS AND SERVICES PURCHASED IN ONE MONTH MAY NOT EXCEED $10,000, UNLESS SPECIFIC AUTHORIZATION IS APPROVED BY THE FINANCE DIRECTOR, CITY ADMINISTRATOR, AND MAYOR UPON THE RECOMMENDATION OF THE PURCHASING DIRECTOR. THE PURCHASING DIRECTOR MAY SUSPEND USE OF PROCUREMENT CARDS FOR FAILURE TO FOLLOW ESTABLISHED PROCESSES AND PROTOCOLS. USE OF PROCUREMENT CARDS FOR PERSONAL OR OTHER NON-CITY USE IS A VIOLATION OF THE CITY'S CODE OF CONDUCT POLICY AND MAY BE GROUNDS FOR TERMINATION AND POSSIBLE CRIMINAL PROSECUTION.

DEPARTMENT HEADS AND EMPLOYEES AUTHORIZED BY DEPARTMENT HEADS MAY REQUEST THE PURCHASE OF GOODS AND SERVICES BY FILING A PROPERLY COMPLETED REQUISITION WITH THE PURCHASING DIRECTOR. UPON RECEIPT OF THE REQUISITION, AND DOCUMENTATION THAT FUNDS HAVE BEEN PROPERLY BUDGETED, THE PURCHASING DIRECTOR SHALL CAUSE THE SOLICITATION OF REQUESTS FOR THE PURCHASE OF THE GOODS AND SERVICES TO BE MADE, FOLLOWING THE APPROPRIATE PROCESSES.

THE PURCHASING DIRECTOR SHALL ADHERE TO THE FORMAT OF THE SELECTED PROCESS AS DETAILED IN THE FOLLOWING SECTIONS:

§ 18-21.3 COMPETITIVE SEALED BIDDING.

(1) *CONDITIONS FOR USE.* ALL PROCUREMENT REQUESTS FOR THE CITY SHALL BE AWARDED BY THE USE OF COMPETITIVE SEALED BIDDING EXCEPT AS OTHERWISE PROVIDED IN SECTIONS 18-21.4 (COMPETITIVE SEALED PROPOSALS), 18-21.5 (QUALIFICATIONS BASED SELECTION), 18-21.6 (SMALL PURCHASES), 18-21.7 (PUBLIC ENTITY PROCUREMENTS), 18-21.8 (SOLE SOURCE PROCUREMENT), AND 18-21.9 (EMERGENCY PROCUREMENTS), OF THIS ARTICLE.

(2) *INVITATION FOR BIDS.* AN INVITATION FOR BIDS SHALL BE ISSUED AND SHALL INCLUDE SPECIFICATIONS AND ALL CONTRACTUAL TERMS AND CONDITIONS APPLICABLE TO THE PROCUREMENT.

(3) *PUBLIC NOTICE.* ADEQUATE PUBLIC NOTICE OF THE INVITATION FOR BIDS SHALL BE GIVEN NOT LESS THAN TEN (10) CALENDAR DAYS PRIOR TO THE DATE SET FORTH FOR THE OPENING OF BIDS. THE NOTICE MAY INCLUDE PUBLICATION ON THE CITY'S WEBSITE, ANY ELECTRONIC MEDIA SERVICE, OR NEWSPAPER OF GENERAL CIRCULATION WITHIN TEN (10) DAYS PRIOR TO BID OPENING. THE PUBLIC NOTICE SHALL STATE THE PLACE, DATE, AND TIME OF BID OPENING.

(4) *BID OPENING.* BIDS MAY BE OPENED PUBLICLY IN THE PRESENCE OF ONE OR MORE WITNESSES AT THE TIME AND PLACE DESIGNATED OR RECORDED AND PUBLISHED IN AN ELECTRONIC INVITATION FOR BIDS MANAGEMENT SYSTEM. THE AMOUNT OF EACH BID, AND ALL OTHER RELEVANT INFORMATION, AS THE PURCHASING DIRECTOR DEEMS APPROPRIATE, TOGETHER WITH THE NAME OF EACH BIDDER SHALL BE RECORDED. THE RECORD AND EACH BID SHALL BE OPEN TO THE PUBLIC.

(5) *BID ACCEPTANCE AND BID EVALUATION.* BIDS SHALL BE UNCONDITIONALLY ACCEPTED WITHOUT ALTERATION OR CORRECTION, EXCEPT AS AUTHORIZED HEREIN. BIDS SHALL BE EVALUATED BASED ON THE REQUIREMENTS SET FORTH IN THE INVITATION FOR BIDS, WHICH MAY INCLUDE CRITERIA TO DETERMINE ACCEPTABILITY SUCH AS INSPECTION, TESTING, QUALITY, WORKMANSHIP, DELIVERY, AND SUITABILITY FOR A PARTICULAR PURPOSE. THOSE CRITERIA THAT WILL AFFECT THE BID PRICE AND BE CONSIDERED IN THE EVALUATION FOR AWARD SHALL BE OBJECTIVELY MEASURABLE, SUCH AS DISCOUNTS, TRANSPORTATION COSTS, AND TOTAL OR LIFE CYCLE COSTS. THE INVITATION FOR BIDS SHALL SET FORTH THE EVALUATION CRITERIA TO BE USED.

(6) *CORRECTION OR WITHDRAWAL OF BIDS; CANCELLATION OF AWARDS.* CORRECTIONS OR WITHDRAWAL OF INADVERTENTLY ERRONEOUS BIDS BEFORE OR AFTER BID OPENING, OR CANCELLATION OF AWARDS OR CONTRACTS BASED ON BID MISTAKES, MAY BE PERMITTED WHERE APPROPRIATE. MISTAKES DISCOVERED BEFORE BID OPENING MAY BE MODIFIED OR WITHDRAWN BY WRITTEN OR ELECTRONIC NOTICE RECEIVED IN THE OFFICE DESIGNATED IN THE INVITATION FOR BIDS PRIOR TO THE DEADLINE FOR SUBMISSION OF THE BID.

(7) *LOCAL PREFERENCE.* FROM THE BIDDERS DETERMINED TO BE RESPONSIBLE, THE PURCHASING DIRECTOR, IN CONSULTATION WITH THE DEPARTMENT HEAD REQUESTING THE GOODS OR SERVICES, SHALL DETERMINE THE RECOMMENDED BID AWARD. FROM AMONG THE RESPONSIBLE BIDDERS, THE RECOMMENDED AWARD SHALL BE TO THE LOWEST BIDDER; PROVIDED, THAT IN DETERMINING THE LOWEST BID, THE PURCHASING DIRECTOR SHALL CONSIDER THE BONA FIDE BUSINESS LOCATION OF THE BIDDER. IF THE LOWEST RESPONSIBLE BIDDER IS NOT LOCATED WITHIN THE CITY LIMITS, AND THE LOWEST BID OF THE RESPONSIBLE BIDDERS LOCATED

WITHIN THE CITY LIMITS DOES NOT EXCEED THAT OF THE LOWEST NON-LOCAL BIDDER BY MORE THAN SEVEN PERCENT (7%), THEN THE PURCHASING DIRECTOR SHALL BE ALLOWED TO REQUEST THE LOWEST LOCAL VENDOR MATCH THE PRICE OFFERED BY THE LOWEST NON-LOCAL VENDOR. ADDITIONALLY, IF THE LOWEST RESPONSIBLE BIDDER IS NOT LOCATED WITHIN THE CITY LIMITS, AND THE LOWEST BID OF THE RESPONSIBLE BIDDER LOCATED WITHIN GENESEE COUNTY DOES NOT EXCEED THE BID OF THE LOWEST NON-LOCAL BIDDER BY MORE THAN THREE AND ONE-HALF PERCENT (3.5%), THEN THE PURCHASING DIRECTOR SHALL BE ALLOWED TO REQUEST THE LOWEST LOCAL VENDOR MATCH THE PRICE OFFERED BY THE LOWEST NON-LOCAL VENDOR.

(8) *APPROVAL THRESHOLDS.* THE PURCHASING DIRECTOR, IN CONSULTATION WITH THE DEPARTMENT HEAD SHALL JOINTLY RECOMMEND THE AWARD OF A BID UNDER THIS SECTION. IF THE BID AWARD IS LESS THAN $20,000, THE DECISION OF THE PURCHASING DIRECTOR SHALL BE FINAL. IF THE RECOMMENDED BID AWARD IS IN EXCESS OF $20,000, IT SHALL ALSO BE APPROVED BY THE FINANCE DIRECTOR; IF IN EXCESS OF $30,000, IT SHALL ALSO BE APPROVED BY THE CITY ADMINISTRATOR; AND, IF IN EXCESS OF $50,000, IT SHALL ALSO BE APPROVED BY THE MAYOR. ANY RECOMMENDED BID AWARDS IN EXCESS OF $75,000 SHALL ALSO BE APPROVED BY THE CITY COUNCIL.

(9) *ADJUSTMENTS TO NEGOTIATED AWARDS.* IN THE EVENT THE SUCCESSFUL BIDDER WAS FOR A PROJECT THAT EXCEEDS AVAILABLE FUNDS AS CERTIFIED BY THE FINANCE DIRECTOR, THE PURCHASING DIRECTOR IS AUTHORIZED, WHEN TIME OR ECONOMIC CONSIDERATIONS PRECLUDE RE-SOLICITATION OF WORK OF A REDUCED SCOPE, TO NEGOTIATE AN ADJUSTMENT OF THE BID PRICE WITH THE LOWEST RESPONSIBLE BIDDER, IN ORDER TO BRING THE BID WITHIN THE AMOUNT OF AVAILABLE FUNDS. ANY NEGOTIATED ADJUSTMENT SHALL BE BASED ONLY UPON ELIMINATING INDEPENDENT DEDUCTIVE ITEMS SPECIFIED IN THE INVITATION FOR BIDS.

(10) *MULTI-STEP SEALED BIDDING.* WHEN IT IS CONSIDERED IMPRACTICAL TO INITIALLY PREPARE A PURCHASE DESCRIPTION TO SUPPORT AN AWARD BASED ON PRICE, AN INVITATION FOR QUALIFICATIONS MAY BE ISSUED REQUESTING THE SUBMISSION OF UN-PRICED OFFERS TO BE FOLLOWED BY AN INVITATION FOR BIDS LIMITED TO THOSE BIDDERS WHOSE OFFERS HAVE BEEN DETERMINED TO BE TECHNICALLY ACCEPTABLE UNDER THE CRITERIA SET FORTH IN THE FIRST SOLICITATION.

§ 18-21.4 COMPETITIVE SEALED PROPOSALS.

(1) *CONDITIONS FOR USE.* WHEN THE PURCHASING DIRECTOR DETERMINES THAT THE USE OF COMPETITIVE SEALED BIDDING IS EITHER NOT PRACTICABLE OR NOT ADVANTAGEOUS TO THE CITY, A CONTRACT FOR THE PURCHASE OF GOODS OR SERVICES MAY BE ENTERED INTO BY USE OF THE COMPETITIVE SEALED PROPOSALS METHOD.

(2) *REQUEST FOR PROPOSALS.* PROPOSALS SHALL BE SOLICITED THROUGH A WRITTEN AND

PUBLICALLY NOTICED REQUEST FOR PROPOSALS FORMAT.

(3) *PUBLIC NOTICE.* ADEQUATE PUBLIC NOTICE OF THE REQUEST FOR PROPOSALS SHALL BE GIVEN IN THE SAME MANNER AS PROVIDED IN SECTION 18-21.3(3) (COMPETITIVE SEALED BIDDING, PUBLIC NOTICE). THE PURCHASING DIRECTOR WILL DETERMINE THE AMOUNT OF TIME IN WHICH REQUESTS WILL BE SOLICITED.

(4) *RECEIPT OF PROPOSALS.* PROPOSALS SHALL BE PREPARED CONTAINING THE NAME OF EACH RESPONDENT, THE NUMBER OF MODIFICATIONS RECEIVED, IF ANY, AND A DESCRIPTION SUFFICIENT TO IDENTIFY THE ITEM OFFERED. THE PROPOSALS SHALL BE OPEN FOR PUBLIC INSPECTION ONLY AFTER BEING PUBLISHED.

(5) *DISCLOSURE OF RESPONDENTS, CONTENTS.* THE CONTENTS OF ANY PROPOSAL SHALL NOT BE DISCLOSED TO COMPETING RESPONDENTS UNTIL AFTER BEING PUBLISHED.

(6) *EVALUATION FACTORS.* THE REQUEST FOR PROPOSALS SHALL STATE THE RELATIVE IMPORTANCE OF PRICE AND OTHER EVALUATION FACTORS.

(7) *DISCUSSION WITH RESPONSIBLE RESPONDENTS AND REVISIONS TO PROPOSALS.* AS PROVIDED IN THE REQUEST FOR PROPOSALS, DISCUSSIONS MAY BE CONDUCTED WITH RESPONSIBLE RESPONDENTS WHO SUBMIT PROPOSALS DETERMINED TO BE REASONABLY SUSCEPTIBLE OF BEING SELECTED FOR AWARD FOR THE PURPOSE OF CLARIFICATION TO ASSURE FULL UNDERSTANDING OF, AND CONFORMANCE TO, THE SOLICITATION REQUIREMENTS. RESPONDENTS WHO SUBMITTED PROPOSALS DETERMINED TO BE REASONABLY SUSCEPTIBLE OF BEING SELECTED FOR AWARD SHALL BE ACCORDED FAIR AND EQUAL TREATMENT WITH RESPECT TO ANY OPPORTUNITY FOR DISCUSSION AND REVISION OF PROPOSALS, AND REVISIONS MAY BE PERMITTED AFTER SUBMISSIONS AND PRIOR TO AWARD FOR THE PURPOSE OF OBTAINING BEST AND FINAL OFFERS.

(8) *LOCAL PREFERENCE.* UNLESS THE FUNDING SOURCE FOR THE CONTRACT PROHIBITS SUCH PREFERENCES, THE PREFERENCE FOR LOCAL VENDORS AS OUTLINED IN SECTION 18-21.3(7) SHALL BE CONSIDERED.

(9) *APPROVAL THRESHOLDS.* THE PURCHASING DIRECTOR, IN CONSULTATION WITH THE DEPARTMENT HEAD, SHALL EVALUATE THE PROPOSALS AND RECOMMEND AWARD OF THE CONTRACT UNDER THIS SECTION. IF THE RECOMMENDED AWARD IS FOR LESS THAN $20,000, THE DECISION OF THE PURCHASING DIRECTOR SHALL BE FINAL. IF THE RECOMMENDED AWARD IS IN EXCESS OF $20,000, IT SHALL ALSO BE APPROVED BY THE FINANCE DIRECTOR; IF IN EXCESS OF $30,000, IT SHALL ALSO BE APPROVED BY THE CITY ADMINISTRATOR; AND, IF IN EXCESS OF $50,000, IT SHALL ALSO BE APPROVED BY THE MAYOR. ANY RECOMMENDED AWARD IN EXCESS OF $75,000 SHALL ALSO BE APPROVED BY THE CITY COUNCIL.

§ 18-21.5 QUALIFICATIONS BASED SELECTION.

(1) *CONDITIONS FOR USE.* THE PURCHASING DIRECTOR MAY DETERMINE, WHEN REQUISITIONS HAVE BEEN RECEIVED, THAT PRE-QUALIFYING VENDORS FOR CONSIDERATION IS IN THE BEST INTERESTS OF THE CITY.

(2) IN SUCH CASE, THE PURCHASING DIRECTOR, IN CONSULTATION WITH THE DEPARTMENT HEAD, SHALL DEVELOP A REQUEST FOR QUALIFICATIONS THAT WILL DEFINE THE REQUEST TO BE SOUGHT AND THE NECESSARY QUALIFICATIONS A QUALIFIED RESPONDING ENTITY MUST HAVE IN ORDER TO BE QUALIFIED TO RESPOND TO A PROPOSAL REQUEST.

(3) *PUBLIC NOTICE.* ADEQUATE PUBLIC NOTICE OF THE REQUEST FOR QUALIFICATIONS SHALL BE GIVEN IN THE SAME MANNER AS PROVIDED IN SECTION 18-21.3(3) (COMPETITIVE SEALED BIDDING, PUBLIC NOTICE).

(4) *RECEIPT OF QUALIFICATIONS.* A REGISTER OF QUALIFICATIONS SHALL BE PREPARED CONTAINING THE NAME AND QUALIFICATIONS OF EACH RESPONDENT. THE REGISTER OF QUALIFICATIONS SHALL BE OPEN FOR PUBLIC INSPECTION ONLY AFTER READ PUBLICLY.

(5) *EVALUATION OF SUBMISSIONS.* THE PURCHASING DIRECTOR, IN CONSULTATION WITH THE DEPARTMENT HEAD, SHALL EVALUATE THE QUALIFICATIONS OF THE RESPONDENT AND SHALL PREPARE A LIST OF RESPONDENTS DESIGNATED AS QUALIFIED. THE PURCHASING DIRECTOR SHALL ALSO PREPARE AND MAINTAIN A LIST OF RESPONDENTS NOT DESIGNATED AS PRE-QUALIFIED, IDENTIFYING THE REASONS WHY THEY WERE NOT DESIGNATED AS PRE-QUALIFIED.

(6) THE PURCHASING DIRECTOR WILL CAUSE TO BE PREPARED A REQUEST FOR COMPETITIVE SEALED PROPOSALS AS PROVIDED IN SECTION 18-21.1, AND ISSUED TO THE QUALIFIED RESPONDENTS.

§ 18-21.6 SMALL PURCHASES.

AS PROVIDED IN THIS ARTICLE, DEPARTMENT HEADS AND SPECIFICALLY DESIGNATED EMPLOYEES MAY BE ISSUED PROCUREMENT CARDS AND MAY PURCHASE GOODS AND SERVICES NOT EXCEEDING $10,000 PER MONTH. THE PURCHASES SHALL NOT BE ARTIFICIALLY DIVIDED SO AS TO CONSTITUTE A SMALL PURCHASE UNDER THIS SECTION.

FOR PURCHASES UNDER $10,000 PER MONTH, INCLUDING PURCHASES UTILIZING PROCUREMENT CARDS, THE DEPARTMENT HEAD AND AUTHORIZED EMPLOYEE SHALL, TO THE EXTENT POSSIBLE AND PRACTICAL AND IN THE BEST INTERESTS OF THE CITY, SOLICIT COMPETITIVE QUOTATIONS TO PROVIDE THE GOODS OR SERVICES SOUGHT. WHEN POSSIBLE AND PRACTICAL, A MINIMUM OF THREE (3) WRITTEN QUOTATIONS AND COPIES OF ALL QUOTATIONS SHALL BE PROVIDED TO THE PURCHASING DIRECTOR FOR SMALL PURCHASE REQUESTS. IN THE ABSENCE OF SUFFICIENT WRITTEN QUOTATIONS, THE PURCHASING DIRECTOR MAY ELECT TO SOLICIT ADDITIONAL QUOTATIONS. THEY SHALL ALSO GIVE CONSIDERATION, WHERE POSSIBLE AND PRACTICAL, TO BUSINESSES WITH A PHYSICAL LOCATION WITHIN THE CITY, OR IF

NOT POSSIBLE, WITHIN GENESEE COUNTY.

THE PURCHASING DIRECTOR MAY ASSESS THESE PURCHASES AS TO THE FEASIBILITY OF FUTURE FORMAL COMPETITIVE PROCESSES FOR THE GOODS AND SERVICES BEING PROCURED IN THIS MANNER.

§ 18-21.7 PUBLIC ENTITY PURCHASES.

THE PURCHASING DIRECTOR IS AUTHORIZED, IF DETERMINED TO BE IN THE BEST INTERESTS OF THE CITY, TO PURCHASE GOODS AND SERVICES FOR THE CITY, RELYING ON COMPETITIVE PROCESSES UNDERTAKEN BY OTHER PUBLIC ENTITIES, INCLUDING THE FEDERAL GOVERNMENT, THE STATE OF MICHIGAN, MUNICIPALITIES, SPECIAL PURPOSE DISTRICTS AND AUTHORITIES, AND SCHOOL DISTRICTS.

THE PURCHASING DIRECTOR MAY APPROVE OR RECOMMEND THE APPROVAL OF A CONTRACT WITH THE VENDOR WHO HAS A CONTRACT WITH ANOTHER PUBLIC ENTITY FOR GOODS OR SERVICES THAT THE CITY WOULD LIKE TO PURCHASE, IF AT A MINIMUM:

(1) THE CONTRACT IS FOR THE SAME GOODS, SERVICES, OR CONSTRUCTION AND AT THE SAME PRICE, TERMS, AND CONDITIONS AS ARE IN THE CONTRACT WITH THE OTHER PUBLIC ENTITY; AND,

(2) THE CONTRACT BETWEEN THE PERSON AND THE OTHER PUBLIC ENTITY WAS AWARDED IN A MANNER CONSISTENT WITH PROCUREMENT BEST PRACTICES AS DETERMINED BY THE PURCHASING DIRECTOR.

§ 18-21.8 SOLE SOURCE PURCHASES.

A PURCHASE ORDER AGREEMENT OR FORMAL WRITTEN CONTRACT FOR THE PURCHASE OF GOODS AND SERVICES MAY BE AWARDED IN THE DISCRETION OF THE PURCHASING DIRECTOR, WITHOUT A FORMAL COMPETITIVE PROCESS WHEN, AFTER CONDUCTING A GOOD FAITH REVIEW OF AVAILABLE SOURCES AND EXISTING EQUIPMENT, THE PURCHASING DIRECTOR DETERMINES THAT:

(1) THERE IS ONLY ONE SOURCE FOR THE REQUIRED SUPPLY, SERVICE, OR CONSTRUCTION ITEM; OR

(2) THE CHOSEN SOURCE IS THE BEST CHOICE IN THE INTERESTS OF EQUIPMENT STANDARDIZATION AND EFFICIENT OPERATIONS. THE PURCHASING DIRECTOR, IN CONSULTATION WITH THE DEPARTMENT HEAD, SHALL OBTAIN A FORMAL PROPOSAL FROM THE VENDOR SPECIFIC TO THE NEEDED GOODS AND SERVICES, AND SHALL MAKE ALL GOOD FAITH EFFORTS TO SECURE A PRICE THAT IS IN THE BEST INTERESTS OF THE CITY. THE REQUESTING DEPARTMENT SHALL PRODUCE A WRITTEN EVALUATION OF THE PROPOSED SOLE SOURCE PURCHASE, DETAILING THE RATIONALE FOR THE RECOMMENDATION.

(3) THE PURCHASE FOLLOWS THE REQUIREMENTS FOR APPROVAL THRESHOLDS

OF § 18-21.3 COMPETITIVE SEALED BIDDING - SECTION (8) AND § 18-21.4 COMPETITIVE SEALED PROPOSALS - SECTION (9).

§ 18-21.9 EMERGENCY PURCHASES.

NOTWITHSTANDING ANY OTHER PROVISION OF THESE REGULATIONS, THE PURCHASING DIRECTOR MAY MAKE OR AUTHORIZE OTHERS TO MAKE EMERGENCY PURCHASES OF SUPPLIES, SERVICES, OR CONSTRUCTION ITEMS WHEN THERE EXISTS A THREAT TO PUBLIC HEALTH, WELFARE, OR SAFETY; PROVIDED THAT THE EMERGENCY PROCUREMENTS SHALL BE MADE WITH SUCH COMPETITION AS IS PRACTICABLE UNDER THE CIRCUMSTANCES. THE REQUESTING DEPARTMENT SHALL PRODUCE A WRITTEN RATIONALE OF THE CIRCUMSTANCES SURROUNDING THE NEED FOR AN EMERGENCY PURCHASE, THE COST, AND ANY EFFORTS MADE TO SECURE COMPETITIVE PRICES.

IF THE AUTHORIZED PURCHASE IS FOR LESS THAN $20,000, THE DECISION OF THE PURCHASING DIRECTOR SHALL BE FINAL, AND A NOTATION WILL BE MADE IN THE ELECTRONIC RECORD KEEPING FOR THE PURCHASE REQUEST. IF TIME PERMITS, THE PURCHASE SHOULD FOLLOW THE REQUIREMENTS FOR APPROVAL THRESHOLDS OF § 18-21.3 COMPETITIVE SEALED BIDDING - SECTION (8) AND § 18-21.4 COMPETITIVE SEALED PROPOSALS - SECTION (9).

§ 18-21.10 REPORTING AND ACCOUNTABILITY.

THE PURCHASING DIRECTOR, ON A MONTHLY BASIS, SHALL PREPARE A REPORT THAT PROVIDES TOTAL EXPENDITURES WITH SPECIFIC VENDORS TO DATE THAT HAVE EXCEEDED A TOTAL OF $10,000.00. THIS REPORT SHALL INCLUDE THE PURCHASE ORDER NUMBER, THE AMOUNT OF THE PURCHASE, THE DEPARTMENT REQUESTING THE GOODS AND SERVICES, AND A DESCRIPTION OF THE GOODS AND SERVICES.

THE REPORT SHALL BE MADE PUBLICALLY AVAILABLE VIA ELECTRONIC MEANS ON A MONTHLY BASIS. THE PURCHASING DIRECTOR SHALL BE AVAILABLE TO REVIEW THE REPORT AND PROVIDE ADDITIONAL INFORMATION AS MAY BE REQUESTED BY THE CITY COUNCIL, OR THEIR DESIGNATED COMMITTEE.

§ 18-21.11 CONTRACTS.

WHERE FINAL AGREEMENT FOR THE PURCHASE OF GOODS OR SERVICES REQUIRES A CONTRACT BINDING THE CITY, OTHER THAN THE ISSUANCE OF A PURCHASE ORDER OR USE OF A PROCUREMENT CARD, THE AGREEMENT MUST BE APPROVED BY THE CITY ATTORNEY BEFORE PRESENTING IT TO THE PERSON AUTHORIZED TO BIND THE CITY.

A MODIFICATION OF A CONTRACT MUST BE APPROVED IN THE SAME MANNER THAT THE CONTRACT WAS APPROVED. ALL CONTRACT MODIFICATIONS MUST BE IN WRITING AND APPROVED IN ADVANCE BY THE CITY ATTORNEY.

DEPARTMENT HEADS ARE RESPONSIBLE FOR MONITORING THE TERMS OF ANY AGREEMENT APPROVED FOR GOODS AND SERVICES FOR THEIR AREA OF RESPONSIBILITY. THE PURCHASING DIRECTOR AND DEPARTMENT HEADS SHALL ASSURE

THAT A CONTRACT ADMINISTRATION SYSTEM IS DESIGNED AND IMPLEMENTED TO ENSURE THAT A CONTRACTOR IS PERFORMING IN ACCORDANCE WITH THE SOLICITATION UNDER WHICH THE CONTRACT WAS AWARDED AND THE TERMS AND CONDITIONS OF THE CONTRACT, AND THAT THE DEPARTMENT IS IN COMPLIANCE WITH ALL REQUIREMENTS OF ANY APPLICABLE GRANTS.

§ 18-21.12 DUE DILIGENCE.

AS PART OF THE EVALUATION OF ANY VENDOR PROPOSING TO DO BUSINESS WITH THE CITY, THE PURCHASING DIRECTOR OR DESIGNEE MAY, AT REASONABLE TIMES, INSPECT THE PART OF THE PLANT, PLACE OF BUSINESS, OR WORKSITE OF A CONTRACTOR OR SUBCONTRACTOR AT ANY TIER THAT IS PERTINENT TO THE PERFORMANCE OF ANY CONTRACT AWARDED, OR TO BE AWARDED, BY THE CITY.

THE CITY MAY ALSO, AT REASONABLE TIMES AND PLACES, AUDIT THE BOOKS AND RECORDS OF ANY CONTRACTOR WHO HAS SUBMITTED COST OR PRICING DATA AS A PART OF ITS BID OR PROPOSAL, TO THE EXTENT THAT THE BOOKS, DOCUMENTS, PAPER, AND RECORDS ARE PERTINENT TO THE COST OR PRICING DATA FOR THREE (3) YEARS FROM THE DATE OF FINAL PAYMENT UNDER THE CONTRACT.

§ 18-21.13 REPORTING OF ANTICOMPETITIVE PRACTICES.

WHEN FOR ANY REASON COLLUSION OR OTHER ANTICOMPETITIVE PRACTICES ARE SUSPECTED AMONG ANY BIDDERS OR RESPONDENTS, A NOTICE OF THE RELEVANT FACTS SHALL BE TRANSMITTED TO THE CITY ATTORNEY'S OFFICE.

§ 18-21.14 DEBARMENT OR SUSPENSION.

THE PURCHASING DIRECTOR, WITH THE CONSENT OF THE CITY ATTORNEY AND THE APPROVAL OF THE MAYOR AND CITY COUNCIL, IS AUTHORIZED TO DEBAR A PERSON FOR CAUSE FROM CONSIDERATION FOR AWARD OF CONTRACTS. THE DEBARMENT SHALL BE FOR A PERIOD OF NOT MORE THAN THREE (3) YEARS. AFTER CONSULTATION WITH THE CITY ATTORNEY, THE PURCHASING DIRECTOR IS AUTHORIZED TO SUSPEND A PERSON FROM CONSIDERATION FOR AWARD OF CONTRACTS IF THERE IS PROBABLE CAUSE TO BELIEVE THAT THE PERSON HAS ENGAGED IN ANY ACTIVITY THAT MIGHT LEAD TO DEBARMENT. THE SUSPENSION SHALL BE FOR A PERIOD NOT TO EXCEED THREE (3) YEARS. THE CAUSES FOR DEBARMENT INCLUDE:

(1) CONVICTION FOR COMMISSION OF A CRIMINAL OFFENSE AS AN INCIDENT TO OBTAINING OR ATTEMPTING TO OBTAIN A PUBLIC OR PRIVATE CONTRACT OR SUBCONTRACT, OR IN THE PERFORMANCE OF THE CONTRACT OR SUBCONTRACT;

(2) CONVICTION UNDER STATE OR FEDERAL STATUTES OF EMBEZZLEMENT, THEFT, FORGERY, BRIBERY, FALSIFICATION OR DESTRUCTION OF RECORDS, RECEIVING STOLEN PROPERTY, OR ANY OTHER OFFENSE INDICATING A LACK OF BUSINESS INTEGRITY OR BUSINESS HONESTY THAT

CURRENTLY, SERIOUSLY, AND DIRECTLY AFFECTS RESPONSIBILITY AS A CITY CONTRACTOR;

(3) CONVICTION UNDER STATE OR FEDERAL ANTITRUST STATUTES ARISING OUT OF THE SUBMISSION OF BIDS OR PROPOSALS;

(4) VIOLATION OF CONTRACT PROVISIONS, AS SET FORTH BELOW, OF A CHARACTER THAT IS REGARDED BY THE PURCHASING DIRECTOR TO BE SO SERIOUS AS TO JUSTIFY DEBARMENT ACTION:

(A) DELIBERATE FAILURE, WITHOUT GOOD CAUSE, TO PERFORM IN ACCORDANCE WITH THE SPECIFICATIONS OR WITHIN THE TIME LIMIT PROVIDED IN THE CONTRACT; OR

(B) A RECENT RECORD OF FAILURE TO PERFORM, OR OF UNSATISFACTORY PERFORMANCE, IN ACCORDANCE WITH THE TERMS OF ONE OR MORE CONTRACTS; PROVIDED THAT FAILURE TO PERFORM OR UNSATISFACTORY PERFORMANCE CAUSED BY ACTS BEYOND THE CONTROL OF THE CONTRACTOR SHALL NOT BE CONSIDERED TO BE A BASIS FOR DEBARMENT;

(5) ANY OTHER CAUSE THE PURCHASING DIRECTOR DETERMINES TO BE SO SERIOUS AND COMPELLING AS TO AFFECT RESPONSIBILITY AS A CITY CONTRACTOR, INCLUDING DEBARMENT BY ANOTHER GOVERNMENTAL ENTITY FOR ANY CAUSE LISTED IN THESE REGULATIONS; AND

(6) FOR VIOLATION OF THE ETHICAL STANDARDS AS SET FORTH IN THE CITY OF FLINT CODE OF CONDUCT POLICY.

THE PURCHASING DIRECTOR SHALL ISSUE A WRITTEN DECISION TO DEBAR OR SUSPEND. THE DECISION SHALL STATE THE REASONS FOR THE ACTION TAKEN AND INFORM THE DEBARRED OR SUSPENDED PERSON INVOLVED OF THEIR RIGHTS CONCERNING JUDICIAL OR ADMINISTRATIVE REVIEW. ANY PERSON RECOMMENDED TO BE DEBARRED PURSUANT TO THIS SECTION SHALL BE GIVEN ADVANCE WRITTEN NOTICE AND SHALL BE AFFORDED THE RIGHT TO CONTEST THE RECOMMENDATION BEFORE THE CITY COUNCIL.

§ 18-21.15 BID PROTESTS.

(1) *RIGHT TO PROTEST.* ANY ACTUAL OR PROSPECTIVE BIDDER, RESPONDENT, OR CONTRACTOR WHO IS AGGRIEVED IN CONNECTION WITH THE SOLICITATION OR AWARD OF A PURCHASE ORDER AGREEMENT OR CONTRACT MAY PROTEST THE ACTION TO THE CITY.

(2) *PROCESS FOR FILING A PROTEST.* A PROTEST WITH RESPECT TO AN INVITATION FOR BIDS OR REQUEST FOR PROPOSALS MUST BE SUBMITTED IN WRITING TO THE PURCHASING DIRECTOR. THE PROTEST MUST BE ENTITLED "BID PROTEST" AND MUST CLEARLY

IDENTIFY THE SOLICITATION AND AWARD UNDER PROTEST, AND MUST STATE THE GROUNDS FOR THE PROTEST. THE PURCHASING DIRECTOR SHALL PROVIDE A COPY OF ANY TIMELY BID PROTEST TO THE MAYOR AND CITY COUNCIL WITHIN SEVEN (7) CALENDAR DAYS OF ITS SUBMISSION.

(3) *TIME LIMITS FOR FILING.* PROTESTS MUST BE RECEIVED BY THE PURCHASING DIRECTOR NO LATER THAN SEVEN (7) CALENDAR DAYS AFTER THE AGGRIEVED PERSON KNEW OR SHOULD HAVE KNOWN OF THE FACTS GIVING RISE TO THE PROTEST, AND IN NO EVENT LATER THAN FOURTEEN (14) CALENDAR DAYS AFTER AWARD OF THE PURCHASE ORDER AGREEMENT OR CONTRACT. FAILURE TO FILE A BID PROTEST WITHIN THESE TIME LIMITS CONSTITUTES A WAIVER OF THE PROTEST.

(4) *STAY OF PROCUREMENTS DURING PROTESTS.* IN THE EVENT A TIMELY PROTEST IS SUBMITTED TO THE PURCHASING DIRECTOR UNDER THIS SECTION, THE PURCHASING DIRECTOR SHALL NOT PROCEED FURTHER WITH THE SOLICITATION, AWARD, OR PERFORMANCE OF THE PURCHASE ORDER AGREEMENT OR CONTRACT UNTIL THE PROTEST IS SUSTAINED OR DISMISSED, OR THE CITY COUNCIL MAKES A DETERMINATION ON THE RECORD THAT THE AWARD OR PERFORMANCE OF A PURCHASE ORDER AGREEMENT OR CONTRACT WITHOUT DELAY IS NECESSARY TO PROTECT SUBSTANTIAL INTERESTS OF THE CITY; PROVIDED HOWEVER THAT IF THE POSTPONEMENT OF THE PURCHASE OF GOODS OR SERVICES IMPAIRS THE ABILITY OF THE CITY TO CARRY OUT ITS SERVICES, THE PURCHASING DIRECTOR, WITH THE APPROVAL OF THE MAYOR, MAY TAKE NECESSARY STEPS TO OBTAIN THE MINIMUM AMOUNT OF GOODS AND SERVICES NECESSARY TO ENABLE CITY SERVICES TO CONTINUE.

(5) *DECISION BY THE PURCHASING DIRECTOR.* THE PURCHASING DIRECTOR SHALL ISSUE A WRITTEN DECISION SUSTAINING OR DENYING THE BID PROTEST WITHIN FIFTEEN (15) DAYS OF RECEIPT OF A WRITTEN AND TIMELY PROTEST. A COPY OF THE PURCHASING DIRECTOR'S DECISION MUST BE PROVIDED TO THE PROTESTING BIDDER OR PROPOSER, THE MAYOR, AND THE CITY COUNCIL.

(6) *APPEAL TO THE MAYOR.* A PROTESTING BIDDER OR PROPOSER MAY APPEAL THE PURCHASING DIRECTOR'S DECISION TO THE MAYOR BY FILING A WRITTEN APPEAL WITH THE MAYOR WITHIN SEVEN (7) DAYS OF THE DATE OF THE PURCHASING DIRECTOR'S DECISION. THE MAYOR SHALL CONDUCT THE INVESTIGATION AS DEEMED NECESSARY TO RESPOND TO THE APPEAL, AND SHALL PROVIDE HIS OR HER DECISION ON THE APPEAL WITHIN SEVEN (7) DAYS.

(7) *APPEAL TO CITY COUNCIL.* A PROTESTING BIDDER OR PROPOSER MAY APPEAL THE PURCHASING DIRECTOR'S DECISION TO THE CITY COUNCIL BY FILING A WRITTEN APPEAL WITH THE CITY CLERK WITHIN SEVEN (7) DAYS OF THE DATE OF THE MAYOR'S DECISION. THE PROTESTING BIDDER SHALL BE AFFORDED AN OPPORTUNITY AT THE NEXT REGULARLY SCHEDULED CITY COUNCIL MEETING TO ADDRESS THE CITY COUNCIL AND STATE THE GROUNDS FOR THE APPEAL. NO LATER THAN THE NEXT REGULARLY SCHEDULED MEETING, CITY COUNCIL

SHALL MAKE ITS DECISION ON THE APPEAL.

§ 18-21.16 CONTRACT CLAIMS.

(1) *DECISION OF THE PURCHASING DIRECTOR.* ALL CLAIMS BY A CONTRACTOR AGAINST THE CITY RELATING TO A CONTRACT SHALL BE SUBMITTED IN WRITING TO THE PURCHASING DIRECTOR FOR A DECISION. THE SUBMISSION MUST IDENTIFY THE GROUNDS FOR THE CLAIM. THE CONTRACTOR MAY REQUEST A CONFERENCE WITH THE PURCHASING DIRECTOR ON THE CLAIM. CLAIMS INCLUDE, WITHOUT LIMITATION, DISPUTES ARISING UNDER A CONTRACT, AND THOSE BASED UPON BREACH OF CONTRACT, MISTAKE, MISREPRESENTATION, OR OTHER CAUSE FOR CONTRACT MODIFICATION OR RESCISSION.

(2) *NOTICE TO THE CONTRACTOR OF THE PURCHASING DIRECTOR'S DECISION.* THE DECISION OF THE PURCHASING DIRECTOR SHALL BE ISSUED IN WRITING WITHIN THIRTY (30) DAYS OF SUBMISSION, AND SHALL BE IMMEDIATELY MAILED OR OTHERWISE FURNISHED TO THE CONTRACTOR. THE DECISION SHALL STATE THE REASONS FOR THE DECISION REACHED, AND SHALL INFORM THE CONTRACTOR OF ITS APPEAL RIGHTS UNDER SUBSECTION (3) OF THIS SECTION. THE PURCHASING DIRECTOR SHALL CONSULT WITH THE CITY ATTORNEY PRIOR TO MAKING A DECISION DENYING THE CONTRACTOR'S CLAIM IN WHOLE OR IN PART.

(3) *FINALITY OF PURCHASING DIRECTOR DECISION; CONTRACTOR'S RIGHT TO APPEAL.* THE PURCHASING DIRECTOR DECISION SHALL BE FINAL AND CONCLUSIVE UNLESS, WITHIN SEVEN (7) CALENDAR DAYS FROM THE DATE OF RECEIPT OF THE DECISION, THE CONTRACTOR MAILS OR OTHERWISE DELIVERS A WRITTEN APPEAL TO THE CITY ADMINISTRATOR.

(4) *APPEAL TO THE CITY ADMINISTRATOR.* A PROTESTING CONTRACTOR MAY APPEAL THE PURCHASING DIRECTOR'S DECISION TO THE CITY ADMINISTRATOR BY FILING A WRITTEN APPEAL WITH THE CITY ADMINISTRATOR WITHIN SEVEN (7) DAYS OF THE DATE OF THE PURCHASING DIRECTOR'S DECISION. THE CITY ADMINISTRATOR SHALL CONDUCT THE INVESTIGATION AS DEEMED NECESSARY TO RESPOND TO THE APPEAL, AND SHALL PROVIDE HIS DECISION ON THE APPEAL WITHIN SEVEN (7) DAYS.

§ 18-21.17 AUTHORITY OF THE PURCHASING DIRECTOR TO SETTLE BID PROTESTS AND CONTRACT CLAIMS.

THE PURCHASING DIRECTOR IS AUTHORIZED TO SETTLE ANY PROTEST REGARDING THE SOLICITATION OR AWARD OF A PURCHASE ORDER AGREEMENT OR CITY CONTRACT, OR ANY CLAIM ARISING OUT OF THE PERFORMANCE OF A PURCHASE ORDER AGREEMENT OR CITY CONTRACT, PRIOR TO THE COMMENCEMENT OF AN ACTION IN A COURT OF COMPETENT JURISDICTION.

§ 18-21.18 CANCELLATION OF SOLICITATIONS FOR THE PURCHASE OF GOODS AND SERVICES.

AT ANY TIME THE CITY DETERMINES THAT A SOLICITATION FOR GOODS OR SERVICES SHOULD BE CANCELLED BECAUSE IT IS NOT IN THE BEST INTERESTS OF THE CITY TO MAKE THE PROCUREMENT, THE

PURCHASING DIRECTOR SHALL IMMEDIATELY NOTIFY THE POTENTIAL VENDORS OF THE CITY'S DECISION. HOWEVER, THE CITY SHALL HAVE NO OBLIGATION OR RESPONSIBILITY FOR ANY COSTS OR INCONVENIENCES INCURRED BY ANY POTENTIAL VENDOR, UNLESS AN AWARD HAS BEEN FORMALLY MADE AND ACCEPTED BY ISSUANCE OF A PURCHASE ORDER OR SIGNING OF A CONTRACT.

§ 18-21.19 ETHICS IN PURCHASING.

THE PROCESS OF PURCHASING GOODS AND SERVICES IS DESIGNED TO ENSURE COMPETITIVE PROCUREMENT CONDUCTED IN AN ETHICAL AND TIMELY MANNER IN ORDER FOR THE CITY TO CARRY OUT ITS DUTIES.

ALL EMPLOYEES DELEGATED AUTHORITY WITH RESPECT TO ALL PURCHASES OF GOODS AND SERVICES ARE CHARGED WITH THE RESPONSIBILITY OF MAKING PURCHASES IN A COMPETITIVE AND ETHICAL MANNER, AND FOR ADHERING IN ALL RESPECTS TO THE CITY OF FLINT CODE OF CONDUCT POLICY. VIOLATION OF THE CITY OF FLINT CODE OF CONDUCT POLICY, INCLUDING THE USE OF CITY RESOURCES FOR PERSONAL USE OR GAIN IS GROUNDS FOR TERMINATION OF EMPLOYMENT AND POSSIBLE CRIMINAL PROSECUTION.

LIKEWISE, PERSONS OR ENTITIES PROPOSING TO, OR ENGAGED IN, THE PROVISION OF GOODS AND SERVICES TO THE CITY ARE CHARGED WITH THE RESPONSIBILITY OF PROPOSING AND PROVIDING GOODS AND SERVICES IN A COMPETITIVE AND ETHICAL MANNER.

WHILE A PROCUREMENT IS PENDING, BIDDERS AND PROPOSERS SHALL NOT COMMUNICATE ABOUT THE SOLICITATION WITH ANY CITY EMPLOYEE, AGENT, OR ELECTED OFFICIAL, OTHER THAN THE PURCHASING DIRECTOR OR OTHER CITY PERSONNEL IDENTIFIED IN THE SOLICITATION.

TO THE EXTENT THAT VIOLATIONS OF THE ETHICAL STANDARDS OF CONDUCT SET FORTH IN THIS ARTICLE CONSTITUTE VIOLATIONS OF THE MICHIGAN PENAL CODE, THEY SHALL BE PUNISHABLE AS PROVIDED THEREIN. THE PENALTIES SHALL BE IN ADDITION TO THE CIVIL SANCTIONS SET FORTH IN THIS ARTICLE. CRIMINAL, CIVIL, AND ADMINISTRATIVE SANCTIONS AGAINST EMPLOYEES OR NON-EMPLOYEES THAT ARE IN EXISTENCE ON THE EFFECTIVE DATE OF THIS ARTICLE SHALL NOT BE IMPAIRED.

IT SHALL BE UNETHICAL AND GROUNDS FOR DEBARMENT AND POTENTIAL CRIMINAL PROSECUTION FOR ANY PERSON TO OFFER, GIVE, OR AGREE TO GIVE TO ANY CITY EMPLOYEE A GRATUITY, AN OFFER OF EMPLOYMENT, OR ANYTHING ELSE OF VALUE IN CONNECTION WITH ANY DECISION TO APPROVE, DISAPPROVE, OR RECOMMEND THE AWARD OF A CONTRACT, OR IN CONNECTION WITH ANY DECISION WITH REGARD TO A BID PROTEST, OR WITH INTENT TO INFLUENCE THE CONTENT OF ANY SPECIFICATIONS OR PROCUREMENT STANDARDS, OR ADVICE, INVESTIGATION, AUDIT REPORT, OR ANY OTHER ADVISORY COMMUNICATION RELATED TO A PROCUREMENT OR CONTRACT UNDER THIS ARTICLE.

IT SHALL BE UNETHICAL AND A VIOLATION OF THE CITY OF FLINT CODE OF CONDUCT POLICY AND

GROUNDS FOR POSSIBLE TERMINATION AND CRIMINAL PROSECUTION FOR ANY CITY EMPLOYEE TO SOLICIT, DEMAND, ACCEPT, OR AGREE TO ACCEPT FROM ANOTHER PERSON A GRATUITY, AN OFFER OF EMPLOYMENT, OR ANYTHING ELSE OF VALUE IN CONNECTION WITH ANY DECISION TO APPROVE, DISAPPROVE, OR RECOMMEND THE AWARD OF A CONTRACT, OR IN CONNECTION WITH ANY DECISION WITH REGARD TO A BID PROTEST, OR WITH INTENT TO INFLUENCE THE CONTENT OF ANY SPECIFICATIONS OR PROCUREMENT STANDARDS, OR ADVICE, INVESTIGATION, AUDIT REPORT, OR ANY OTHER ADVISORY COMMUNICATION RELATED TO A PROCUREMENT OR CONTRACT UNDER THIS ARTICLE.

IT SHALL BE UNETHICAL AND GROUNDS FOR DEBARMENT AND POTENTIAL CRIMINAL PROSECUTION FOR ANY PAYMENT, GRATUITY, OR OFFER OF EMPLOYMENT TO BE MADE BY OR ON BEHALF OF A SUBCONTRACTOR UNDER A CONTRACT TO THE PRIME CONTRACTOR OR HIGHER TIER SUBCONTRACTOR OR ANY PERSON ASSOCIATED THEREWITH, AS AN INDUCEMENT FOR THE AWARD OF A SUBCONTRACT OR ORDER.

§ ~~18-21.14~~ 18-21.20 SALE OR LEASE OF CITY OWNED PROPERTY.

No interest in real property of the City ~~of Flint~~ shall be disposed of, transferred, or otherwise alienated unless by ordinance or resolution of the City Council.

Sec. 2. This ordinance shall become effective the 1st **day of** May, **~~2014~~** 2015.

Adopted this 10th **day of** April, **2015 A.D.**

Gerald Ambrose, Emergency Manager

APPROVED AS TO FORM:

Peter M. Bade, City Attorney

EM SUBMISSION NO.: EMA 162 2015

PRESENTED: 4-9-15

ADOPTED: 4-10-15

S:\Ordinance Files\Purchasing Ordinance Final 04.02.15.docx

Gerald Ambrose
Emergency Manager

Dayne Walling
Mayor

Jason Lorenz
Public Information Officer
(810) 237-2039
jlorenz@cityofflint.com

For Immediate Release

EM Updates Council, Requests support for Emergency Loan and District Court Consolidation; Adjusts Salaries for Mayor and Council

Flint, Michigan – April 13, 2015 – By letter to City Council issued today, Emergency Manager Jerry Ambrose congratulated City Council for their recent actions committing to restoring and maintaining the City's financial solvency. Mr. Ambrose stated that recent actions to adopt a series of ordinances requiring commitment to establishing appropriate financial reserves and an improved planning and budgeting process indicate that the Council understands the need to restore and maintain Flint's financial solvency. "While there is much yet to do, these are positive steps in the right direction," said Mr. Ambrose. "The ongoing challenge will be to adhere to the requirements the City Council has adopted themselves."

Mr. Ambrose's letter also reiterated the priority issues currently facing the City – developing a long range financial plan, beginning with the upcoming FY16 and FY17 budget; continuing to address concerns with water safety, quality and affordability; and stabilizing resources for public safety. "These are clearly the top priority issues, and ones which require the cooperation of all if they are to be successfully addressed," stated Mr. Ambrose. "Unfortunately, resources are extremely limited, and we must make decisions which address the most critical issues in a financially sound manner – and that often means we cannot do everything everybody wants."

Some of the ingredients of restoring Flint's financial solvency on a sustainable basis, according to Mr. Ambrose, include obtaining a $7 million loan to finance the accumulated

–CONTINUE–

General Fund deficit and approving the consolidation of the 67th and 68th District Courts. Both issues are pending before City Council and Mr. Ambrose is hopeful for a quick positive response. "The terms and conditions offered with this loan equate to a good deal for the City and will enable it to begin to more quickly rebuild its financial solvency. Approving the court consolidation will reduce City expenses by $8.4 million over the next 10 years and will help to provide some stability in funding other public safety services."

Mr. Ambrose also presented Council with actions he is taking to continue the progress towards transition, including an updated purchasing ordinance and an order officially defining the role of the new City Administrator as the chief administrative officer for the City. "Moving the City forward in today's environment requires professional managers, clear responsibilities, and modern practices," said Ambrose. "These actions move in that direction, and hopefully move the Council forward in truly becoming the governing body of the City, focused on policies and accountability for moving the City forward based on its vision, mission, and goals."

Recognizing the increasing role of the Mayor and Council as the City transitions to home rule with oversight by a Receivership Transition Advisory Board, Mr. Ambrose announced that he is reestablishing the salaries for Mayor and Council at the levels in place before the City was most recently placed into state receivership. He noted that Council meetings are now held twice per month, with committee meetings held once per month, and the Mayor is now much more engaged in a Chief Executive role. Continued receipt of the re-established salaries, however, will be contingent upon attainment of certain training levels. These training levels were established in prior orders of the Emergency Manager, and Councilmembers will have until November 1, 2015 to obtain it, or their salary will be reduced to the current level.

--END--

From: Hovey, Amy <Amy.Hovey@mail.house.gov>
Sent: Monday, June 01, 2015 2:39 PM
To: Muchmore, Dennis (GOV)
Subject: Flint Water Situation

Good afternoon Dennis –

It was great talking with you at the Michigan Policy Conference last week. I am writing to follow up. I am hoping that we can schedule a meeting with the Michigan Health Endowment Fund to discuss the possibilities of the getting a grant to help with the water situation in Flint. At least some subsidy dollars for the very poor that are paying water bills three times higher than the average citizen in this state. I can make myself available to meet in Lansing.

Thank you for your help with this critical issue. I look forward to hearing from you soon.

Enjoy your day!
Amy

Amy Hovey
District Chief of Staff
Congressman Dan Kildee (MI-05)
801. S Saginaw St.
Flint, MI 48502
PPI
www.dankildee.house.gov
www.dankildee.house.gov

http://dankildee.house.gov/newsletter-subscription/

From: Paul Hillegonds <PPI
Sent: Wednesday, June 03, 2015 8:00 AM
To: Muchmore, Dennis (GOV)
Cc: Julie Skubik
Subject: Re: Flint Water Situation

Yes. I'm asking Julie to work with Wendy on setting a meeting time.

Sent from my iPad

On Jun 1, 2015, at 5:29 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

> Can we meet with you to discuss this?
>
> ---
>
> **From:** Hovey, Amy [mailto:Amy.Hovey@mail.house.gov]
> **Sent:** Monday, June 01, 2015 2:39 PM
> **To:** Muchmore, Dennis (GOV)
> **Subject:** Flint Water Situation
>
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> It was great talking with you at the Michigan Policy Conference last week. I am writing to follow up. I am hoping that we can schedule a meeting with the Michigan Health Endowment Fund to discuss the possibilities of the getting a grant to help with the water situation in Flint. At least some subsidy dollars for the very poor that are paying water bills three times higher than the average citizen in this state. I can make myself available to meet in Lansing.
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> Thank you for your help with this critical issue. I look forward to hearing from you soon.
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> Enjoy your day!
> Amy

Amy Hovey
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<image001.gif><image002.gif> <image003.jpg> <image004.png>

http://dankildee.house.gov/newsletter-subscription/

From: Paul Hillegonds <PPI
Sent: Thursday, June 25, 2015 1:37 PM
To: Jamie Gaskin
Cc: Dan Kildee; Dayne Walling; Jim Ananich; Sheldon Neeley; Phil Phelps; Amy Hovey
Subject: Re: United Way of Genesee County Proposal

Jamie,

Thank you for sending the proposal from the United Way of Genesee County to the Michigan Health Endowment Fund, requesting a $500,000 grant to assist City of Flint residents with their water bills. Thank you, too, for sharing letters of support from Flint community leaders.

I will be sharing the proposal with the MHEF Grantmaking Committee, which is currently preparing the Fund's 2015 grants program. I anticipate that in late July, we will be announcing a program and accepting applications until mid-September. Grants will be awarded in December and early next year. As we discussed, the Grants Committee is considering inviting community foundations to identify the most pressing health and wellness issues in their regions and submit proposals to the MHEF. If our board supports this approach, the best opportunity to seek a $500,000 grant will be through your local community foundation. After the committee has prepared its program recommendation for approval by the MHEF board, I will be in touch with you about next steps.

Thanks again.

Paul

Sent from my iPad

> On Jun 22, 2015, at 4:05 PM, "Jamie Gaskin" <PPI wrote:
>
> Mr. Hillegonds:
>
> I have attached the proposal from the United Way of Genesee County to the MI Health Endowment Fund. Per our conversation I am also ccing this application to Amy Hovey, District Chief of Staff, Congressman Dan Kildee. Please feel free to contact me with any questions or additional documents that may be needed such as 990's or Audits. Thanks again so much for any advocacy you can provide.
>
> James Gaskin
> CEO
> United Way of Genesee County
>
> From: Jamie-Lee Venable
> Sent: Monday, June 22, 2015 3:53 PM
> To: Jamie Gaskin
> Subject: United Way of Genesee County Proposal
>
>

>
> Jamie-Lee Venable
> Director, Community Impact
> United Way of Genesee County and BEST Project
> 111 E Court St, Suite 3A, Flint MI 48502 Direct Line: PPI
>
>
>
> <Attachment A Brochure.pdf>
> <Attachment B Program Budget.xlsx>
> <Attachment C Support Letters.pdf>
> <Attachment D City Ordinance.pdf>
> <Water Proposal.docx>

From: Dayne Walling <dwalling@cityofflint.com>
Sent: Thursday, June 25, 2015 3:01 PM
To: Hollins, Harvey (GOV); Muchmore, Dennis (GOV)
Subject: Fwd: United Way of Genesee County Proposal

Gentlemen, we do desperately need this relief for our water customers. Our plan is to provide assistance to those with a record of payment who need a bridge to a sustainable payment plan. This helps the customers and their families and also keeps another paying customer on our system as we work to stabilize. Please do see what can be done for this to be a direct grant instead of waiting months and months and then restarting at the community foundation level. Anything you can do...please.
Thanks, Dayne

---------- Forwarded message ----------
From: **Flint Mayor** <mayor@cityofflint.com>
Date: Thu, Jun 25, 2015 at 1:37 PM
Subject: Fwd: United Way of Genesee County Proposal
To: Dayne Walling <dwalling@cityofflint.com>

---------- Forwarded message ----------
From: **Paul Hillegonds** <Paul@mhealthfund.com>
Date: Thu, Jun 25, 2015 at 1:37 PM
Subject: Re: United Way of Genesee County Proposal
To: Jamie Gaskin <jgaskin@unitedwaygenesee.org>
Cc: Dan Kildee <dan.kildee@mail.house.gov>, Dayne Walling <mayor@cityofflint.com>, Jim Ananich <senjananich@senate.michigan.gov>, Sheldon Neeley <sheldonneeley@house.mi.gov>, Phil Phelps <repphelps@house.mi.gov>, Amy Hovey <Amy.Hovey@mail.house.gov>

Jamie,

Thank you for sending the proposal from the United Way of Genesee County to the Michigan Health Endowment Fund, requesting a $500,000 grant to assist City of Flint residents with their water bills. Thank you, too, for sharing letters of support from Flint community leaders.

I will be sharing the proposal with the MHEF Grantmaking Committee, which is currently preparing the Fund's 2015 grants program. I anticipate that in late July, we will be announcing a program and accepting applications until mid-September. Grants will be awarded in December and early next year. As we discussed, the Grants Committee is considering inviting community foundations to identify the most pressing health and wellness issues in their regions and submit proposals to the MHEF. If our board supports this approach, the best opportunity to seek a $500,000 grant will be through your local community foundation. After the committee has prepared its program recommendation for approval by the MHEF board, I will be in touch with you about next steps.

Thanks again.

Paul

Sent from my iPad

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> Mr. Hillegonds:
>
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> CEO
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> Subject: United Way of Genesee County Proposal
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> <Attachment B Program Budget.xlsx>
> <Attachment C Support Letters.pdf>
> <Attachment D City Ordinance.pdf>
> <Water Proposal.docx>

--
Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw Street
Flint, Michigan 48502
810-766-7346
mayor@cityofflint.com

www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

--
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Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
PPI
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

From: Hollins, Harvey (GOV)
Sent: Wednesday, July 22, 2015 4:50 PM
To: Muchmore, Dennis (GOV)
Subject: '20150722_Meeting with Flint's Clean Water Coalition'
Attachments: 20150722_Meeting with Flint's Clean Water Coalition.docx; ATT00001.htm

Chief,
Just got a call from Wendy re the notes from the Flint meeting. I took a picture of your notes and sent them to you via text. Attached is a copy of my notes.

20150722_Meeting with Flint's Clean Water Coalition
Attendees: Rev. Wallace Hill, Rev. Allen Overton, Melissa May, Claire McClinton and Dr. Laura Sutherland (professor of Chemical Engineering at Kettering)

NOTES:

- Issue is not rust, but TTHM and lead
  - ✓ Rust…not an issue
  - ✓ TTHM should be taken care by the granular filter currently being installed
  - ✓ Lead is the issue
    - No one from the group has contacted the city
    - Lead is too small to filter
- Excess levels of chlorine increases the PH levels execrating metallic decomposition of iron, copper and lead
- KWA Pipeline
- RTAB's activity
- County Health Department have asked the city for information city not forth coming

TODO:

- Water Rates---Treasury
  - ✓ Rate structure
  - ✓ High flushing activity and rates…should result in a discount
  - ✓ How are the current rate calculated
  - ✓ RTBA reversal of the city's decision to tax the DDA.
- Lead—DHHS and DEQ
  - ✓ Dennis Muchmore will follow up with DHHS to check on the lead content in Flint water.
  - ✓ Follow up with DEQ
    - DEQ has results of testing water
  - ✓ Pastor Overton will send a complaint to the city
- KWA Pipeline:
  - ✓ Governance of KWA
  - ✓ Who paying for the buildout
  - ✓ Will the KWA water be mixed with the Flint River water

From: Hollins, Harvey (GOV)
Sent: Thursday, July 23, 2015 7:46 AM
To: Muchmore, Dennis (GOV)
Subject: Re: '20150722_Meeting with Flint's Clean Water Coalition'

I have a call with Wyant today.

Best,
Harvey Hollins III, Director
Governor's Office of Urban Initiatives

313.456.4994 (office)
PPI

On Jul 23, 2015, at 7:21 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> Talked with Saxton, workman, and Lyon about the issues. Collecting the info and then we'll see where it all stands.
>
> Sent from my iPhone
>
> On Jul 22, 2015, at 4:49 PM, Hollins, Harvey (GOV) <hollinsh@michigan.gov> wrote:
>
> > Chief,
> > Just got a call from Wendy re the notes from the Flint meeting. I took a picture of your notes and sent them to you via text. Attached is a copy of my notes.
> >
> > <20150722_Meeting with Flint's Clean Water Coalition.docx>
> >
> > Best,
> > Harvey Hollins III, Director
> > Governorâ€™s Office of Urban Initiatives
> >
> > 313.456.4994 (office)
> > **PPI**

From: Saxton, Thomas (Treasury)
Sent: Friday, July 24, 2015 3:35 PM
To: Muchmore, Dennis (GOV)
Cc: Workman, Wayne (TREASURY)
Subject: RE: RDS/DM/EC/JW/NKhouri/TSaxton/WWorkman - Local Government Update

Next week sometime can Wayne & I have a follow up conversation with you re Flint water? Wayne & I had a call with Brad W. @ DEQ. He is getting back to us re some of the items on your list. So maybe mid-week?
I think the bottom line is Wayne, Brad & I (we would "volunteer") to meet with your minister group here in Lansing [to the extent we can] provide info to some of the issues they raised with you. It may be better that you are not at the meeting. Of course that is your call but maybe let us 'peons' do it. Harvey could be there in your stead; since he knows them. I am sure whatever we convey they probably won't be happy.

-----Original Message-----
From: Muchmore, Dennis (GOV)
Sent: Wednesday, July 22, 2015 2:44 PM
To: Workman, Wayne (TREASURY)
Cc: Clement, Elizabeth (GOV); Wisniewski, Wendy (GOV); Workman, Wayne (TREASURY); Saxton, Thomas (Treasury); Pleyte, Beth (Treasury); Doyle, Maureen (Treasury); Walsh, John (GOV); Khouri, Nick (TREASURY); Dempkowski, Angela (Treasury)
Subject: Re: RDS/DM/EC/JW/NKhouri/TSaxton/WWorkman - Local Government Update

Wayne-
We need to have more discussion relating to Flint water. There seem to be even more issues regarding the water than there should be. I'll have a series of questions that I really need some answers to if you can have someone who understands the problems there. The people there just seem to be getting a raw deal from the city particularly in terms of the information they are getting. I know you are as worried about their health as I am so we kind of need to get answers to some of these concerns.

> On Jul 22, 2015, at 2:08 PM, GovCalendar <GovCalendar@michigan.gov> wrote:
>
> Agenda:
>
> **Not Responsive**
>
> Flint
> • Water System/KWA
>
> **Not Responsive**
>

Not Responsive

> Attachment: WWorkman Memo
>
>
> <Local Government Update.pdf>
> <meeting.ics>

From: Hollins, Harvey (GOV)
Sent: Wednesday, July 29, 2015 11:21 AM
To: Muchmore, Dennis (GOV)
Cc: Clayton, Stacie (GOV)
Subject: Re: Updated Memo on Water Coalition Questions - July 29

If your schedule permits, let's go to Flint to meet with them next week, or we can ask them to come back to Lansing. We should convey the response verbally and in person. If you're open to it, I'll ask Stacie to schedule that meeting next week.

Best,
Harvey

On Jul 29, 2015, at 9:03 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> Here's the answers to some of the questions. How do you want to approach the pastors and community leaders, we owe them answers to the questions they asked.
>
> ---
>
> **From:** Workman, Wayne (TREASURY)
> **Sent:** Wednesday, July 29, 2015 8:36 AM
> **To:** Muchmore, Dennis (GOV); Wurfel, Brad (DEQ); Lyon, Nick (DCH); Clement, Elizabeth (GOV)
> **Cc:** Saxton, Thomas (Treasury); Wisniewski, Wendy (GOV)
> **Subject:** FW: Updated Memo on Water Coalition Questions - July 29
> **Importance:** High
>
> All, Attached is a memo and water rate summary answering several of the questions raised by the Flint pastors. Please let me know if you have any questions. Wayne
>
> Wayne L. Workman
> Deputy State Treasurer
> Michigan Department of Treasury
>
> ---
>
> **From:** Cline, Richard (Treasury)
> **Sent:** Wednesday, July 29, 2015 8:21 AM
> **To:** Workman, Wayne (TREASURY)
> **Cc:** Dempkowski, Angela (Treasury); Byrne, Randall (Treasury)
> **Subject:** Updated Memo on Water Coalition Questions - July 29
> **Importance:** High
>
> Wayne,
>
> Attached is the water rate table you asked for and I have updated the memo to reference this as an attachment.
>
> If you need anything else, please let me know.
>
> Note that Rob, Randy and I will be in Benton Harbor for a portion of today conducting their annual RTAB evaluation.

Eric Cline | Department Manager
State of Michigan | Michigan Department of Treasury | Office of Fiscal Responsibility
430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
Lansing Office (517) 335-2078 | Cell Phone PPI | Traverse City Office (231) 922-5228
E-mail cliner1@michigan.gov

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<Memo on Water Coalition Questions III.07-29-15.docx>

<Flint Water Rate History FINAL 02.11.15.pdf>

From: Wurfel, Brad (DEQ)
Sent: Thursday, July 30, 2015 9:47 AM
To: Muchmore, Dennis (GOV)
Cc: Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Re: Flint Water Meeting

Absolutely, Chief. Thank you for the invite. We will be there.
b
Sent from my iPhone

> On Jul 30, 2015, at 9:43 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:
>
> Can you join us with some Flint community leaders on Tuesday at 9:30 to talk about these water quality issues (probably need to bring your science guy)? Tom and Wayne will be there and Harvey and I promised these pastors we'd have real information for them and we do.

From: Hollins, Harvey (GOV)
Sent: Friday, July 31, 2015 11:43 AM
To: Muchmore, Dennis (GOV)
Subject: Re: Updated Memo on Water Coalition Questions - July 29

Follow Up Flag: Follow up
Flag Status: Completed

It's already scheduled for next Tues in Lansing. Also, The Meijer Foundation is donating 1500 filters to be shipped after next Tues. Meijer doesn't want to be recognized for this. At the meeting I asked the group to review their distribution plan.

Best,
Harvey

On Jul 31, 2015, at 11:38 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> I can do it here, can't go to Flint.
>
> ---
>
> **From:** Hollins, Harvey (GOV)
> **Sent:** Wednesday, July 29, 2015 11:21 AM
> **To:** Muchmore, Dennis (GOV)
> **Cc:** Clayton, Stacie (GOV)
> **Subject:** Re: Updated Memo on Water Coalition Questions - July 29
>
> If your schedule permits, let's go to Flint to meet with them next week, or we can ask them to come back to Lansing. We should convey the response verbally and in person. If you're open to it, I'll ask Stacie to schedule that meeting next week.
>
> Best,
> Harvey
>
> On Jul 29, 2015, at 9:03 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:
>
> > Here's the answers to some of the questions. How do you want to approach the pastors and community leaders, we owe them answers to the questions they asked.
> >
> > ---
> >
> > **From:** Workman, Wayne (TREASURY)
> > **Sent:** Wednesday, July 29, 2015 8:36 AM
> > **To:** Muchmore, Dennis (GOV); Wurfel, Brad (DEQ); Lyon, Nick (DCH); Clement, Elizabeth (GOV)
> > **Cc:** Saxton, Thomas (Treasury); Wisniewski, Wendy (GOV)
> > **Subject:** FW: Updated Memo on Water Coalition Questions - July 29
> > **Importance:** High
> >
> > All, Attached is a memo and water rate summary answering several of the questions raised by the Flint pastors. Please let me know if you have any questions. Wayne

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Cline, Richard (Treasury)
Sent: Wednesday, July 29, 2015 8:21 AM
To: Workman, Wayne (TREASURY)
Cc: Dempkowski, Angela (Treasury); Byrne, Randall (Treasury)
Subject: Updated Memo on Water Coalition Questions - July 29
Importance: High

Wayne,

Attached is the water rate table you asked for and I have updated the memo to reference this as an attachment.

If you need anything else, please let me know.

Note that Rob, Randy and I will be in Benton Harbor for a portion of today conducting their annual RTAB evaluation.

Eric Cline | Department Manager
State of Michigan | Michigan Department of Treasury | Office of Fiscal Responsibility
430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
Lansing Office (517) 335-2078 | Cell Phone PPI | Traverse City Office (231) 922-5228
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<Memo on Water Coalition Questions III.07-29-15.docx>

<Flint Water Rate History FINAL 02.11.15.pdf>

From: Hollins, Harvey (GOV)
Sent: Friday, July 31, 2015 11:54 AM
To: Muchmore, Dennis (GOV)
Subject: Fwd: Meijer

It would be cool if the Gov sends Mark Murray a short note of thanks.

Best,
Harvey

Begin forwarded message:

> **From:** Bob Richardson Jr <bob.richardson@clorox.com>
> **Date:** July 31, 2015 at 11:44:53 AM EDT
> **To:** "Clayton, Stacie (GOV)" <claytons3@michigan.gov>, Mary.Anne Hogan Johnson <mary.anne.hogan.johnson@clorox.com>
> **Cc:** "Akemann, Jamie" <Jamie.Akemann@meijer.com>, "Mears, Scott" <Scott.Mears@meijer.com>, Alyssa Wisenor <Alyssa.Wisenor@clorox.com>, "Stephen Hardy" <Stephen.Hardy@clorox.com>, "Rolland, Heather" <Heather.Rolland@meijer.com>, "Hollins, Harvey (GOV)" <hollinsh@michigan.gov>, "Behler, Stacie" <Stacie.Behler@meijer.com>
> **Subject: RE: Meijer**
>
> Mary Anne
>
> Thanks for making this happen
>
> Bob Richardson
> Director Of Sales, Customer and Industry Development
> Bus:972-871-6721 Cell: PPI
>
> -----Original Message-----
> From: Clayton, Stacie (GOV) [mailto:claytons3@michigan.gov]
> Sent: Friday, July 31, 2015 10:36 AM
> To: Mary.Anne Hogan Johnson
> Cc: Akemann, Jamie; Bob Richardson Jr; Mears, Scott; Alyssa Wisenor; Stephen Hardy; Rolland, Heather; Hollins, Harvey (GOV); Behler, Stacie
> Subject: Re: Meijer
>
> Thank you so much. Have a wonderful weekend!
>
> Stacie Clayton
> Sent from my iPhone
>
> On Jul 31, 2015, at 11:21 AM, Mary.Anne Hogan Johnson <mary.anne.hogan.johnson@clorox.com> wrote:

Hello Stacie,

We will order the product today for delivery after Tuesday. We will let you know the exact date and the tracking information when available.

Thank you.

-----Original Message-----

From: Clayton, Stacie (GOV) [mailto:claytons3@michigan.gov]

Sent: Friday, July 31, 2015 9:55 AM

To: Akemann, Jamie

Cc: Bob Richardson Jr; Mears, Scott; Mary.Anne Hogan Johnson; Alyssa Wisenor; Stephen Hardy; Rolland, Heather; Hollins, Harvey (GOV); Behler, Stacie

Subject: Re: Meijer

Good Morning All,

Thank you, again.

Is it possible to delay the shipment of the filters until next Tuesday, August 4?

I was just informed they are creating a distribution plan in Flint so the filters can be given to the community when received. This will alleviate the church having to store the filters.

I apologize for not communicating this sooner. Please let me know if the delay is possible.

Stacie Clayton

Sent from my iPhone

On Jul 31, 2015, at 7:40 AM, Akemann, Jamie <Jamie.Akemann@meijer.com<mailto:Jamie.Akemann@meijer.com>> wrote:

Good morning,

Below is the address for delivery of the water filters. Please copy Stacie Clayton when they are shipped with a tracking number. She will ensure someone is at the church the day of delivery.

Thanks for the support!

Deliver to:

Pastor Allen Overton
Mt. Carmel Baptist Church
1610 West Pierson Road
Flint, MI 48504
810.397.0219

Please let me know if you need anything else from me.

Stacie
313.456.4994 (office)
claytons3@michigan.gov<mailto:claytons3@michigan.gov>

From: Bob Richardson Jr [mailto:bob.richardson@clorox.com]
Sent: Tuesday, July 28, 2015 4:17 PM
To: Akemann, Jamie
Cc: Mears, Scott; Mary.Anne Hogan Johnson; Alyssa Wisenor; Stephen Hardy; Bob Richardson Jr
Subject: RE: Meijer
Importance: High

Jamie

Looks like we can support. Alyssa will coordinate with logistics on product.

Thanks much for all Meijer does to support our categories

Bob Richardson
Director Of Sales, Customer and Industry Development
Bus:972-871-6721 Cell: PPI

From: Akemann, Jamie [mailto:Jamie.Akemann@meijer.com]

Sent: Tuesday, July 28, 2015 1:05 PM

To: Bob Richardson Jr

Cc: Mears, Scott

Subject: Meijer

Bob,

I hope all is well for you and I look forward to seeing you this fall at our vendor summit.

Meijer needs some help supporting the Flint Michigan community and was hoping Clorox can jump in.

They are having some issues with water quality and are looking for a donation of 1500 water filters for drinking water.

Would Clorox consider donating as a silent partner with Meijer?

Please let me know as we want to support the community.

Best Regards,

Jamie

The product ID for a Brita Filter for kitchen faucets is:

Product ID 3176421

UPC 7-23987-0078

<image001.png>

Jamie Akemann

Vice President Hardlines

2350 3 Mile Road NW l Grand Rapids, MI 49544

P: (616) 791-3082 C: PPI

Jamie.Akemann@meijer.com<mailto:Jamie.Akemann@meijer.com>

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prohibited. If you have received this message in error, please delete this message and notify the sender immediately.

From: do-not-reply@detroitnews.com
Sent: Monday, August 03, 2015 11:49 AM
To: Muchmore, Dennis (GOV)
Subject: dennis muchmore has sent you - Flint pastors tell residents to get their water tested - from Detroit News

Message from: muchmored@michigan.gov

Flint pastors tell residents to get their water tested

Some area pastors held a rally Sunday to urge residents to get their tap water tested

Check out this story on detroitnews.com: http://detne.ws/1SAH1K6

From: Muchmore, Dennis (GOV)
Sent: Monday, August 03, 2015 5:38 PM
To: Muchmore, Dennis (GOV)
Subject: FW: Updated Memo on Water Coalition Questions - July 29
Attachments: Flint Testing and EBLLs_2.xlsx

For meeting with Pastors and community leaders.

From: Lyon, Nick (DCH)
Sent: Friday, July 31, 2015 10:57 AM
To: Muchmore, Dennis (GOV);
Subject: Re: Updated Memo on Water Coalition Questions - July 29

Our Public Health staff followed up a bit more on the lead question. Below is their email update to me.

From: Grijalva, Nancy (DCH)
Sent: Wednesday, July 29, 2015 11:23 AM
To: Lyon, Nick (DCH)
Subject: FW: Director's Office Assignment -- Flint - need update asap
FYI.....
-----Original Message-----
From: Peeler, Nancy (DCH)
Sent: Tuesday, July 28, 2015 2:57 PM
To: Anderson, Paula (DCH); Miller, Corinne (DCH); Travis, Rashmi (DCH); Moran, Susan (DCH); Grijalva, Nancy (DCH); Fink, Brenda (DCH)
Cc: Priem, Wesley F. (DCH); Dykema, Linda D. (DCH); Bouters, Janese (DCH); Barr, Jacqui (DCH)

Subject: RE: Director's Office Assignment -- Flint - need update asap

I apologize for the delay in responding more specifically to this assignment, it took some time to review our Childhood Lead Poisoning Prevention program data to see if it might contribute to the understanding of the situation in Flint with their water supply. Here is what we found:

We looked at lead testing results for May 2014-April 2015, which is the 12 month time frame just after Flint started drawing their water from the river (water source changed in April 2014).

We compared lead testing rates and lead testing results to the same time frame for the previous 3 years, to see if there were any patterns that suggested that there were increased rates of lead poisoning after the water supply was switched. Per the attached charts –

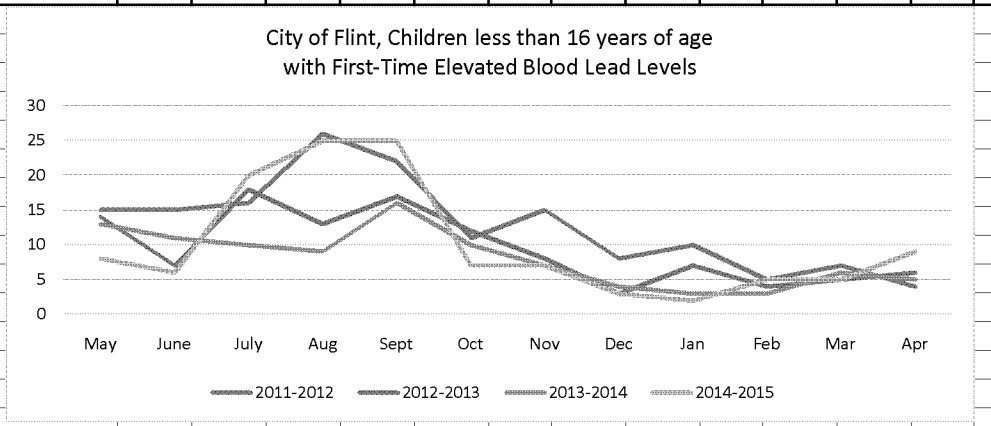
- Lead testing rates remained about the same from year to year (chart on the right).
- There was a spike in elevated blood lead tests from July-September 2014 (chart on the left, gold line).
- However that pattern was not terribly different from what we saw in the previous three years, especially in 2011-2012 (we are working with our Epidemiologist to statistically verify any significant differences).
- We commonly see a 'seasonal effect' with lead, related to people opening and closing windows more

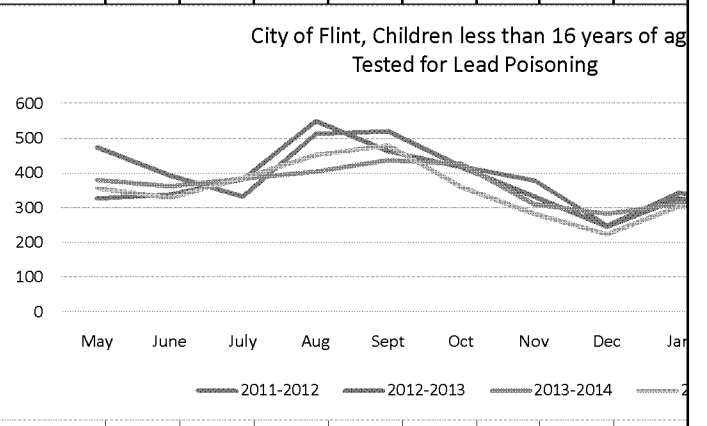
often in the summer, which disturbs old deteriorating paint on the windows, sills and sashes. Window fans frequently blow and spread the lead dust from the deteriorating paint to other parts of the room/house. We suspect that the summer data spike may be related to this effect.

- If the home water supply lines and/or river water were contributing to elevated blood lead tests, we expected that the increased rates would extend beyond the summer, but they drop quite a bit from September to October, stayed low over the winter, and are just starting to tail up again in the spring of 2015.

So upon review, we don't believe our data demonstrates an increase in lead poisoning rates that might be attributable to the change in water source for Flint. We recognize that lead exposure via the water is only a small piece of what may be happening for families in Flint, however, we hope the information is helpful.

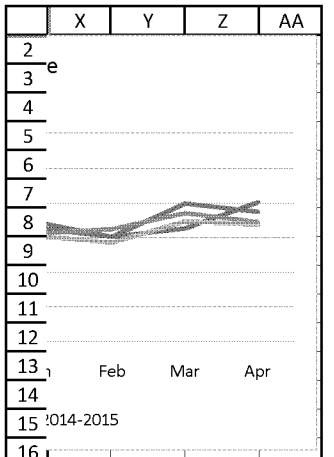
Nancy Peeler





		May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr
2011-2012		15	15	16	26	22	11	15	8	10	5	7	4
2012-2013		14	7	18	13	17	12	8	3	7	4	5	6
2013-2014		13	11	10	9	16	10	7	4	3	3	6	5
2014-2015		8	6	20	25	25	7	7	3	2	5	5	9

		May	June	July	Aug	Sept	Oct	Nov	Dec
2011-2012		474	393	332	513	520	420	379	249
2012-2013		328	338	383	550	464	417	332	246
2013-2014		380	363	385	404	438	427	310	283
2014-2015		356	329	386	452	480	361	283	224



	X	Y	Z	AA
16				
17				
18	Jan	Feb	Mar	Apr
19	343	303	399	375
20	328	303	328	402
21	313	325	371	346
22	305	287	348	339

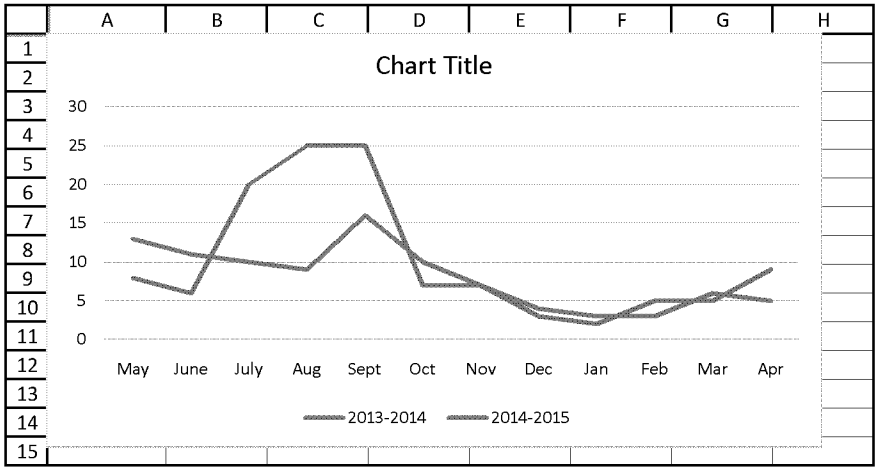


Chart Title
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2013-2014
2014-2015

From: Hollins, Harvey (GOV)
Sent: Wednesday, August 05, 2015 11:50 AM
To: Muchmore, Dennis (GOV)
Cc: Clayton, Stacie (GOV)
Subject: Re: '20150804_Meeting with Flint's Clean Water Coalition'

I agree. It's hard to get to yes or satisfaction with certain types of community advocates because no matter what you do, they will always grind an ax on something.

The reason why I did not want to discuss the kitchen filters is that the Clean Water folks, not the pastors, expressed the following issues re the filters at a meeting Overton held last week:

* The Concerned Pastors group would like filters to go only to low income families. The Coalition for Clean Water believes anyone should be able to get the filters since everyone drinks the same water no matter income.
* The Coalition believes 1500 is not nearly an adequate number to address the problem. The Pastors want to work with what they have right now and address getting more later.
* The Coalition does not consider the filters a form of relief.

Three churches will get 500 kitchen filters each to distribute to residents of Flint in need. How the pastors determine need is not our problem. Also, the talking point I gave Overton and Harris yesterday on media inquiries about the source of the filters is: 1) the donor wishes to remain anonymous; and 2) the Concerned pastors continues to work with philanthropic, corporate, federal, state and local officials to improve the quality of life for residents in the city of Flint. Now whether they use those talking point is another thing.

Re KWA. It's not what the system can produce, it's what the city wants to purchase, and they are purchasing, to my understanding, 18million gals/day. The KWA will supply to county as well.

The untreated KWA water will be mixed with the Flint River at the treatment facility. Six to eight million gals will be siphoned off from the untreated line to industry...including GM before mixing occurs at the Flint treatment facility. As a result, GM will not get Flint River water. Again this is the discussion, and I will verify the process.

I agree, I think one more meeting with the pastors and maybe the professor from Kettering (who I think is reasonable) to put closure on the outstanding questions is warranted. The other women who were there to argue for the sake of arguing should not be apart of that meeting.

Regarding more state money to Flint or democracy discussions on the question of emergency management isn't something that I have too much of an appetite for.

Best,
Harvey Hollins III, Director
Governor's Office of Urban Initiatives

313.456.4994 (office)

PPI

On Aug 5, 2015, at 9:03 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

I didn't think that meeting was as useful as others. If people won't accept the factual information, I'm not sure there is much we can do about it. They're getting their own filters, we've installed six at the main and I thought there were six more coming. As for the flushing, that's part of any city's water system, and people in every community pay for it. As to the frequency, there must be a plan to reduce the number of times.

Questions:
Why does KWA only produce 18 million gals? Doesn't make sense to have a system that doesn't produce enough water.
Where do they expect to get the other from? Especially since GM doesn't want the Flint river water (even though presumably GM has been both the biggest commercial user and disposer), how do they separate out the flow?

We can't do too many more of these. The three activists in the room just want to be right, they don't want answers. No matter what we say they'll always want something else to be the answer. The Pastors and the woman form yesterday who usually sits across from me and who always lectures us (that's just a reminder of some of the old time negative racial experiences she's had and I get it) are really a strong group of people. Usually there is a black woman who comes with them, but I missed her yesterday. I really her and of course, Overton and Hill are pretty impressive people in their own right.

From: Hollins, Harvey (GOV)
Sent: Wednesday, August 5, 2015 8:32 AM
To: Muchmore, Dennis (GOV)
Cc: Clayton, Stacie (GOV)
Subject: '20150804_Meeting with Flint's Clean Water Coalition'

From: Wurfel, Brad (DEQ)
Sent: Thursday, September 03, 2015 12:31 PM
To: Hollins, Harvey (GOV); Muchmore, Dennis (GOV)
Subject: FW: lead in flint water

Wanted you both to see what I sent to the Flint Journal. Because only one sentence of it made it into the Flint Journal.
b

From: Wurfel, Brad (DEQ)
Sent: Wednesday, September 02, 2015 3:28 PM
To: 'Ronald Fonger'
Subject: RE: lead in flint water

Here's a response from the DEQ. Attribute to me. Call me if you have further questions. Thanks, Ron.
b

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713

PPI

We are aware that Virginia Tech researchers are now testing water at various Flint homes for lead levels. We appreciate that Virginia Tech's team is working on this issue because it brings the public spotlight on an important fact: if you have lead water pipes or plumbing fixtures containing lead in your home, or a lead service connection to the city system, it is very likely you are ingesting some level of lead. That's just a fact. It's true whether you live in Detroit, Dowagiac or Decatur.

And in the City of Flint, that fact affects 15,000 or more residences.

However, we want to be very clear that the lead levels being detected in Flint drinking water are not coming from the treatment plant or the city's transmission lines. Treated water leaving the plant has no detectable levels of lead in it. The issue is how, whether, and to what extent the drinking water is interacting with lead plumbing in people's homes.

It does not appear the Virginia Tech research lab is certified, and we can't speak to the sampling methods being employed to achieve these results. The results reported so far fail to track with any of the lead sampling conducted by the city. In addition, the Virginia Tech results are not reflected by the blood lead level testing regularly conducted by the state department of community health that have not shown any change since Flint switched sources.

The state's compliance monitoring program requires the city to use certified laboratories and a standardized, federal testing protocol that looks specifically at the homes in communities most likely to experience lead problems. The latest results from Flint, obtained from two separate rounds of testing over the past year, indicated that Flint drinking water, meets state and federal safe drinking water standards for lead.

That said, the state has requested Flint to 'optimize' its water treatment to further limit exposure to lead from plumbing in homes. While statute allows several years for a drinking water system to actually undertake this process – Detroit took five years to complete its water optimization work – we are encouraging Flint water system operators to take these steps immediately and we are encouraged by the conversation so far.

Any resident who has concerns about lead in their drinking water should have their water tested at a certified laboratory and get professional consultation on how to address it. The leading cause of lead poisoning is known to be lead paint and, in some areas, environmental legacy hot spots where lead is present in soils. However, I will say it again: when homes are fitted with lead plumbing or plumbing fixtures containing lead, homeowners should assume there is some varied level of interaction between water and pipes that results in lead exposure.
b

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Wednesday, September 02, 2015 11:40 AM
To: Wurfel, Brad (DEQ)
Subject: RE: lead in flint water

Brad:
If needed, here is the link to what's been posted today.
I spoke with Dr. Marc Edwards, who is overseeing the research.
http://flintwaterstudy.org/

Ron Fonger
MLive Media Group
Reporter

PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Wurfel, Brad (DEQ) [mailto:WurfelB@michigan.gov]
Sent: Wednesday, September 02, 2015 11:37 AM
To: Ronald Fonger
Subject: RE: lead in flint water

Ron, thank you for reaching out. We definitely want to clarify some important points here. Give me a few to read this and pull together some stuff for you.
Again, THANKS!!!
b

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Wednesday, September 02, 2015 11:34 AM
To: Wurfel, Brad (DEQ)
Cc: Kristin Longley; Bryn Mickle
Subject: lead in flint water

Brad:
I left a message with Mike Prysby on Tuesday, Sept. 1, but wanted to reach out to you also because of stories we are working on about the extent to which lead is becoming an issue in Flint drinking water.
Today, Sept. 2, researchers at Virginia Tech posted the results on an experiment with Flint water online. The report concludes that Flint River water leaches much more lead from plumbing than does Detroit.
"On average, Detroit water is 12 times (or 12X) less corrosive than the Flint River water currently in use … This is creating a public health threat in some Flint homes that have lead pipe or lead solder," the report says.
An earlier post by the same researchers says that initial water tests show "a serious lead in water problem" in Flint, partly because Flint River water is so corrosive to pipes.
Given the state's role in oversight of the city's drinking water system through DEQ and its overall oversight by state emergency managers during the past several years, I wanted to make sure I'm reaching out to the right person to respond to this information.
Could you let me know who that is?
I expect to post the first story about the experiment today and expect the issue will be getting more attention as the VT study of 300 water test kits from Flint is completed.
Thanks,

Ron Fonger
MLive Media Group
Reporter

PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

Subject: HH/DM Meeting
Location: DM's Office

Start: Wed 9/9/2015 10:00 AM
End: Wed 9/9/2015 10:15 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Clayton, Stacie (GOV)
Required Attendees: Hollins, Harvey (GOV); Muchmore, Dennis (GOV); Wendy Wisniewski (WisniewskiW@michigan.gov)

Regarding: 1) **Not Responsive** 2) Flint and water filters

From: Hollins, Harvey (GOV)
Sent: Monday, September 14, 2015 3:44 PM
To: Muchmore, Dennis (GOV)
Subject: Re: PRESS RELEASE: Special Presentation to City Council on Water

To raise hell is my best response to your question.

I participated in one of these informational this past spring, and it was chaotic. I hope DEQ did not set this up; if it's like the one I went to, the residents will come loaded for bear.

On Sep 14, 2015, at 1:33 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> Why would anyone participate in this one except for informational purposes?
>
> ---
>
> **From:** Muchmore, Dennis (GOV)
> **Sent:** Monday, September 14, 2015 1:32 PM
> **To:** Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Pallone, Maggie (DEQ) <PalloneM@michigan.gov>
> **Subject:** FW: PRESS RELEASE: Special Presentation to City Council on Water
>
> FYI. Is this your meeting?
>
> **From:** Jason Lorenz [mailto:jlorenz@cityofflint.com]
> **Sent:** Monday, September 14, 2015 9:09 AM
> **Subject:** PRESS RELEASE: Special Presentation to City Council on Water
>
> **For Immediate Release**
>
> ## Special Presentation to City Council on Water to be Included in City Council Meeting Agenda for Monday, September 14, 2015
>
> ***Flint, Michigan – September 14, 2015*** – The agenda for the regular City Council meeting scheduled for Monday, September 14, 2015 at 6:00pm will include a special presentation to update residents on water. The presentation will include the steps taken thus far to address the quality, safety and affordability of the water as well as upcoming plans to make improvements to the water system. This is a public meeting and residents are encouraged to attend.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI
jlorenz@cityofflint.com

<City Council Meeting Water Presentation 9.14.15.pdf>

From: Dayne Walling [dwalling@cityofflint.com]
Sent: Monday, September 14, 2015 4:17 PM
To: GovernorsOffice; Snyder, Rick (GOV)
Cc: Joshua Freeman; senjananich@senate.mi.gov; Hollins, Harvey (GOV); Muchmore, Dennis (GOV); Phil Phelps; SheldonNeeley@house.mi.gov; Hedman, Susan; Natasha Henderson
Subject: Flint Water Request
Attachments: Flint Mayor Water Request.pdf

Dear Governor,
I am renewing my call for additional funding to address Flint's water challenges. While significant progress has been made, with the fiscal stress and pending lawsuits against the City, there is a gap in the funds necessary to meet the adopted capital improvement plan and to respond to new needs with lead pipes. Attached is a letter of request. I thank you in advance for your willingness to review.

Sincerely,
Mayor Walling

--
Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
810-766-7346
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

CITY OF FLINT

Dayne Walling
Mayor

September 14, 2015

The Honorable Rick Snyder
Governor, State of Michigan
P.O. Box 30013
Lansing, MI 48909

RE: Call for Additional Support for Flint Water Improvement Plan

Dear Governor Snyder:

On behalf of the Flint community, I am writing with a renewed request for additional support to address Flint's water challenges to ensure that water is affordable and secure for everyone in Flint especially our vulnerable populations. I am asking for an additional $30 million in funds for Flint's infrastructure and a new healthy homes initiative.

Significant progress has been made throughout this year to increase water safety and quality and I thank you for the involvement of your office, the Michigan Department of Environmental Quality, and the Michigan Department of Treasury. A majority of items in the Water Improvement Plan are completed or underway. Most importantly, Flint is now in compliance with the Safe Drinking Water Act due in large part to the installation of the new carbon filter. The infrastructure systems are being made more secure and efficient through the State grants. Now the City is committed to following the recommendation of the Michigan Department of Environmental Quality to optimize the treatment process, reduce corrosion and further minimize risks from lead.

The need to accelerate the City's capital improvement investments remains and has been further increased by the continued financial stress and legal issues. Previously I requested support for replacement or forgiveness of payment to the Drinking Water Revolving Loan Fund due to Flint's status as a distressed community and the gap in funding in the adopted capital improvement plan. I understand that the existing federal law does not allow the existing Drinking Water Revolving Loans that Flint is carrying to be forgiven in retrospect but the need still exists. Flint owes approximately $20 Million. One solution is for the State to grant a new $20 Million that is designed as forgivable from the start. Another solution is to provide

equivalent funding through an expansion of the grant program to Michigan's Financially Distressed Cities, Villages and Townships with a supplemental budget amendment in cooperation with the State Legislature.

The community's heightened concern about lead leeching into the water from old service lines and home plumbing also needs to be addressed. We know that lead is an environmental contaminant and there have been many programs in place over the years to address sources in paint and pipes. Flint needs a new healthy homes initiative specifically focused on lead in water with $10 Million to start the process of replacing service lines for the most vulnerable households. Regardless of the source and treatment of Flint's water, this long term threat of lead in pipes needs to be removed in the interest of public health.

My approach continues to be to work with you and your appointed officials, State Senator Ananich, State Representatives Phelps and Neeley, Congressman Kildee, community groups, businesses, churches, foundations, the Flint City Council, and all of the City of Flint and State and Federal government personnel. We need every available expert and resource to address Flint's water problems.

Flint's safety is my top priority. Just as the City and State have worked together on public safety, we need additional support for fixing the water problems. We need $30 Million in new funds to repair and update the city-wide infrastructure and to assist households in becoming lead-free. The entire Flint community deserves sustainable, safe, secure and affordable water now and into the future. Thank you for the consideration Governor and I look forward to future discussions.

Sincerely,

Dayne Walling
Mayor, City of Flint

CC: Flint City Council President Joshua Freeman; Congressman Dan Kildee; State Senator Jim Ananich; State Representative Sheldon Neeley; State Representative Phil Phelps; EPA Regional Administrator Dr. Susan Hedman; Chief of Staff Dennis Muchmore

CITY OF FLINT

Dayne Walling
Mayor

January 18, 2015

The Honorable Rick Snyder
Governor, State of Michigan
P.O. Box 30013
Lansing, MI 48909

RE: Flint Water Improvement Plan

Dear Governor Snyder:

On behalf of the Flint community, I am writing to convey serious concerns about water quality and to request your support for my proposed Flint Water Improvement Plan. Access to safe and clean water is a basic human right, and, therefore, policy and budget decisions need to ensure that water is affordable and secure for everyone in Flint and all across Michigan it is essential there is City, State and Federal cooperation to address the challenges here and to meet the needs of vulnerable populations.

The Flint Water Improvement Plan is focused in five areas: safety, quality, access, investment and education. The plan puts safety and quality first because this is fundamental. It is designed to be a sustainable solution for the City of Flint and the community as we move towards a new permanent water supply from Lake Huron through the Karegnondi Water Authority. My plan offers new ideas and also builds on successful models of utility, energy and assistance programs at the State and Federal levels.

Safety & Quality

- 100% Safety is the standard
- City of Flint reports testing data to the public to assure safety and expands testing sites and frequency
- Bring on experienced river water treatment operational management in the City of Flint

Access

- Announce an amnesty program for Flint water service turn-ons and reduce the turn-on fee
- Develop a revised affordable payment plan policy to encourage customers to return
- Design Federal and State partnership to establish new Drinking Water Emergency Assistance Fund for the elderly and vulnerable families

Investment

- Accelerate water system improvements outlined in the City of Flint Capital Improvement Plan through Federal and State investments
    - State approves City of Flint's Distressed Cities Fund applications

- Federal and State support for replacement or forgiveness of payment to the Drinking Water Revolving Loan Fund due to Flint's status as a distressed community
- Federal and State grants for infrastructure improvements in alignment with the Flint Master Plan

* City Water Department implements budgeted FY15 projects including leak detection, valve repairs, new pipes and meter replacements

Education

* Develop a community partnership with universities to provide household and business customers with information on testing and conservation
* Ongoing partnership with Michigan Department of Human Services, United Way, Salvation Army and community organizations to provide information and water assistance with the Keep the Water Flowing Fund and support services
* Expand youth energy initiative to assist households with conservation and efficiency (piloted in summer 2014 with Northwestern High School students, EcoWorks and Consumers Energy)

It is also critical to restore the public confidence in Flint Water. The implementation of this plan must be accompanied by extensive community engagement including local elected officials. My objective is to work with you and your appointed officials, State Senator Ananich, State Representatives Phelps and Neeley, Congressman Kildee, community groups, businesses, churches, foundations, the Flint City Council, and all of the City of Flint and government personnel.

It is imperative that we communicate better and provide residents more information. I understand representatives from the Michigan Department of Environmental Quality will be joining a public forum this week at City Hall. This engagement going forward is vital so thank you for supporting their efforts. I think this issue of transparency is important for communities all across the State. I recommend a review of the applicable laws and policies and, at a minimum, a new requirement that water testing data be reported publicly no less than quarterly by law in all Michigan communities in Flint's population category.

Thank you for the consideration Governor. There is nothing more important in Flint right now than fixing the water problems. We must work together to identify funds to repair and update the water treatment facilities and city-wide infrastructure and to help those persons without access to clean water so that the entire Flint community has sustainable, safe, secure and affordable water now and into the future. This is an important issue for the state of our State of Michigan and I urge you to work with us to implement solutions.

Sincerely,

Dayne Walling, Mayor
City of Flint

CC: Flint City Council President Joshua Freeman; Congressman Dan Kildee; State Senator Jim Ananich; State Representative Sheldon Neeley; State Representative Phil Phelps; Flint Emergency Manager Jerry Ambrose

From: Saxton, Thomas (Treasury)
Sent: Wednesday, September 16, 2015 10:43 AM
To: Muchmore, Dennis (GOV)
Cc: Workman, Wayne (TREASURY); Khouri, Nick (TREASURY)
Subject: RE: Flint

But there is no 'magic' bullet at this point in terms of money or anything substantive

---

From: Workman, Wayne (TREASURY)
Sent: Wednesday, September 16, 2015 10:40 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Khouri, Nick (TREASURY) <KhouriN@michigan.gov>
Cc: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Lyon, Nick (DCH) <LyonN2@michigan.gov>; Wyant, Dan (DEQ) <WyantD@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Roberts, John (DTMB) <RobertsJ9@michigan.gov>
Subject: RE: Flint

We will have an update later today from our call with the City yesterday.

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Muchmore, Dennis (GOV)
Sent: Wednesday, September 16, 2015 10:33 AM
To: Khouri, Nick (TREASURY) <KhouriN@michigan.gov>
Cc: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Lyon, Nick (DCH) <LyonN2@michigan.gov>; Wyant, Dan (DEQ) <WyantD@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Roberts, John (DTMB) <RobertsJ9@michigan.gov>
Subject: RE: Flint

Any additional information on this?

From: Khouri, Nick (TREASURY)
Sent: Tuesday, September 15, 2015 10:01 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Cc: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Lyon, Nick (DCH) <LyonN2@michigan.gov>; Wyant, Dan (DEQ) <WyantD@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Roberts, John (DTMB) <RobertsJ9@michigan.gov>
Subject: Re: Flint

Tom

Any state or federal subsidized financing available? Something similar in structure to combined sewer overflow?

It's not free money, but a better option

Sent from my iPhone

On Sep 15, 2015, at 9:52 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> Nice of Dayne Walling to work with us before he called yesterday to tell me he was going to announce to City Council last night that Flint needs and deserves $30M from the state for upgrades to their water system and a lead abatement program. Any thoughts on this?

From: Wurfel, Brad (DEQ)
Sent: Wednesday, September 16, 2015 10:48 AM
To: Muchmore, Dennis (GOV)
Subject: RE: Flint

I'm drafting our response to the congressional / state elected officials. We plan to have this ready and ship it today, as EPA (Susan Hedman) sent her response yesterday. And we plan to follow suit with her form. Which was amazingly efficient in its brevity.
b

From: Muchmore, Dennis (GOV)
Sent: Wednesday, September 16, 2015 10:33 AM
To: Khouri, Nick (TREASURY)
Cc: Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); Lyon, Nick (DCH); Wyant, Dan (DEQ); Wurfel, Brad (DEQ); Agen, Jarrod (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Roberts, John (DTMB)
Subject: RE: Flint

Any additional information on this?

From: Khouri, Nick (TREASURY)
Sent: Tuesday, September 15, 2015 10:01 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Cc: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Lyon, Nick (DCH) <LyonN2@michigan.gov>; Wyant, Dan (DEQ) <WyantD@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Roberts, John (DTMB) <RobertsJ9@michigan.gov>
Subject: Re: Flint

Tom

Any state or federal subsidized financing available? Something similar in structure to combined sewer overflow?

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Sent from my iPhone

On Sep 15, 2015, at 9:52 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> Nice of Dayne Walling to work with us before he called yesterday to tell me he was going to announce to City Council last night that Flint needs and deserves $30M from the state for upgrades to their water system and a lead abatement program. Any thoughts on this?

From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Wednesday, September 16, 2015 8:09 PM
To: Muchmore, Dennis (GOV)
Subject: Re: EPA's response to Rep. Kildee re: Flint water

Thanks, Dennis. I do not see the attached EPA letter? I do see the DEQ letter to Kildee in the other email.

Also, do you have the letter from DEQ to Jim?

On 9/16/15, 6:14 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
wrote:

>
>
>Sent from my iPhone
>
>Begin forwarded message:
>
>From: "Wurfel, Brad (DEQ)"
><WurfelB@michigan.gov<mailto:WurfelB@michigan.gov>>
>Date: September 16, 2015 at 4:25:08 PM EDT
>To: "Hollins, Harvey (GOV)"
><hollinsh@michigan.gov<mailto:hollinsh@michigan.gov>>, "Muchmore,
>Dennis (GOV)" <muchmored@michigan.gov<mailto:muchmored@michigan.gov>>
>
>Subject: FW: EPA's response to Rep. Kildee re: Flint water
>
>Heads up, here's the official response on Flint water inquiry from EPA
>to Cong. Kildee. It went last night.
>Our formal response is going out COB today, will send around the
>finalized but not yet sent version in just a moment so you've got it.
>If you have questions, call my cell phone, please. Thanks!
>b
>
>
>Brad Wurfel
>Communications Director
>Michigan Department of Environmental Quality
>517-284-6713
> PPI cell
>
>
>
>From: Pallone, Maggie (DEQ)
>Sent: Tuesday, September 15, 2015 7:25 PM
>To: Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Howes, Sarah (DEQ);
>Wurfel, Brad (DEQ); Busch, Stephen (DEQ); Benzie, Richard (DEQ);
>Shekter Smith, Liane (DEQ); Sygo, Jim (DEQ)

>Subject: Fwd: EPA's response to Rep. Kildee re: Flint water
>
>
>
>
>Begin forwarded message:
>From: "Fortin, Denise"
><Fortin.Denise@epa.gov<mailto:Fortin.Denise@epa.gov>>
>Date: September 15, 2015 at 6:28:38 PM EDT
>To: "Pallone, Maggie (DEQ)"
><PalloneM@michigan.gov<mailto:PalloneM@michigan.gov>>
>Cc: "Beckmann, Ronna Erin"
><beckmann.ronna@epa.gov<mailto:beckmann.ronna@epa.gov>>, "Deamer, Eileen"
><deamer.eileen@epa.gov<mailto:deamer.eileen@epa.gov>>
>Subject: EPA's response to Rep. Kildee re: Flint water Here you go,
>Maggie. I'll be sending this letter to Jordan Dickinson shortly.
>
>Please keep me posted on the location for Monday's meeting.
>
>Thanks,
>Denise
>
>Denise Fortin
>Congressional Liaison
>Office of Regional Administrator
>U.S. Environmental Protection Agency

PPI

From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Thursday, September 17, 2015 11:11 AM
To: Muchmore, Dennis (GOV)
Subject: Re: EPA's response to Rep. Kildee re: Flint water

Thanks, do you have a copy of the DEQ to Jim letter?

Sent from my iPhone

On Sep 17, 2015, at 11:05 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> Sorry, here's the EPA letter to Dan.
>
> **From:** Wurfel, Brad (DEQ)
> **Sent:** Wednesday, September 16, 2015 4:25 PM
> **To:** Brown, Eric (GOV) <BrownE15@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>
> **Cc:** Brown, Jessica (GOV) <BrownJ53@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
> **Subject:** FW: EPA's response to Rep. Kildee re: Flint water
>
> Heads up, here's the official response on Flint water inquiry from EPA to Cong. Kildee. It went last night.
> Our formal response is going out COB today, will send around the finalized but not yet sent version in just a moment so you've got it.
> If you have questions, call my cell phone, please. Thanks!
> b
>
> Brad Wurfel
> Communications Director
> Michigan Department of Environmental Quality
> 517-284-6713
> PPI cell
>
> **From:** Pallone, Maggie (DEQ)
> **Sent:** Tuesday, September 15, 2015 7:25 PM
> **To:** Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Howes, Sarah (DEQ); Wurfel, Brad (DEQ); Busch, Stephen (DEQ); Benzie, Richard (DEQ); Shekter Smith, Liane (DEQ); Sygo, Jim (DEQ)
> **Subject:** Fwd: EPA's response to Rep. Kildee re: Flint water
>
> Begin forwarded message:

From: "Fortin, Denise" <Fortin.Denise@epa.gov>
Date: September 15, 2015 at 6:28:38 PM EDT
To: "Pallone, Maggie (DEQ)" <PalloneM@michigan.gov>
Cc: "Beckmann, Ronna Erin" <beckmann.ronna@epa.gov>, "Deamer, Eileen" <deamer.eileen@epa.gov>
Subject: EPA's response to Rep. Kildee re: Flint water

Here you go, Maggie. I'll be sending this letter to Jordan Dickinson shortly.

Please keep me posted on the location for Monday's meeting.

Thanks,
Denise

Denise Fortin
Congressional Liaison
Office of Regional Administrator
U.S. Environmental Protection Agency
312-886-9859

<Hon. Daniel Kildee 09-15-15.pdf>

From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Tuesday, September 22, 2015 4:09 PM
To: Muchmore, Dennis (GOV)
Subject: Re: Flint Water

Thanks I have been digging through clips as well. For clarity, what specifically should interest me?

Sent from my iPhone

On Sep 22, 2015, at 4:03 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> I thought you might be interested in this article from early 2013.
>
> Flint City Council approves resolution to buy water from Karegnondi, state approval still needed
> By Dominic Adams | dadams5@mlive.com
> on March 25, 2013 at 10:45 PM, updated March 26, 2013 at 1:28 AM
> FLINT, MI – Flint is one step closer to getting its water from Lake Huron as part of the Karegnondi Water Authority.
> The vote, approved 7-1 at the Flint City Council meeting Monday, March 25, may have set in motion the end to Flint paying to get its water from Detroit.
> Under the proposal, Flint would get 16 million gallons per day of raw water from Lake Huron, pipe it to Flint for treatment and then sell it to customers throughout the city. Another 2 million gallons per day would come from the Flint River and will be treated in Flint.
> Mayor Dayne Walling said the Department of Environmental Quality must approve Flint's getting 2 million gallons per day from the Flint River.
> Tuesday's meeting followed weeks of discussions and special meetings surrounding the resolution.
> "We got there," Councilman Joshua Freeman said. "That's the important thing."
> There were more than 50 people at Monday's meeting.
> "Going with Karegnondi is the best decision. We have no opinion on the economics of the decision," said Rebecca Fedewa, Flint River Watershed Coalition executive director. "If we start drawing water out of the Flint River, we are at risk of having to start releasing water from our reservoirs."
> Genesee County Drain Commissioner Jeff Wright said the decision must still be approved by a county water and waste advisory board. The KWA board will then be reconvened for final approval.
> Wright said construction could start in May.
> State treasury officials still must approve the city council's move because Flint has an emergency financial manager. All expenditures over $50,000 must be approved.
> Genesee County Drain Commissioner Jeff Wright has said that Flint would pay roughly $6.4 million annually for water service if it joined the pipeline – a nearly $4 million savings on what it pays Detroit for water.
> Walling previously said the city would save $19 million over eight years by

getting water from the KWA.
"It's a historic night in the City of Flint," Walling said. "The savings will be less with the capacity level approved by city council because there will be increased treatment cost for the river water."
He said the DEQ told the city it needed to get 18 million gallons per day or there would have to be additional work done at Flint's water plant.
Flint's water plant and the Flint River is currently the backup for Flint and Genesee County, however, the plant only operates four times per year.
Councilman Bryant Nolden was the lone dissenting vote.
"It was a protest vote," Nolden said. "I knew they had enough votes. I just feel like the Flint River is our best option."
Karengnondi is the regional water authority that includes Genesee, Lapeer and Sanilac counties and the cities of Flint and Lapeer.
Flint is the second municipality, behind Genesee County, to officially decide to purchase raw water through the KWA. Lapeer city officials said they intend to purchase water, but an agreement has been finalized.
Dominic Adams is a reporter for MLive-Flint Journal. Contact him at dadams5@mlive.com or 810-241-8803. Follow him on Twitter, Facebook or Google+.

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From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Tuesday, September 22, 2015 4:31 PM
To: Muchmore, Dennis (GOV)
Subject: Re: Independent Water Analysis - Flint

Why don't just you and I meet tomorrow and spend an hour solving this issue? We can argue about who is to blame after we do everything we can to protect the infants and children in Flint. I am supposed to be in Flint all day but I could clear most of it and be here by 11am.

From: "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
Date: Tuesday, September 22, 2015 at 4:15 PM
To: Andy Leavitt <aleavitt@senate.michigan.gov>
Subject: FW: Independent Water Analysis - Flint

Another old article so you have what I have.

From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Tuesday, September 22, 2015 4:38 PM
To: Muchmore, Dennis (GOV)
Subject: Re: Independent Water Analysis - Flint

Sounds perfect. Kewpees it is.

Thank you.

From: "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
Date: Tuesday, September 22, 2015 at 4:34 PM
To: Andy Leavitt <aleavitt@senate.michigan.gov>
Subject: RE: Independent Water Analysis - Flint

Actually I don't think anyone is to blame, it's just a complicated situation that will not get much better until KWA is up and running. I'll see you tomorrow at 11:00. How about if I buy you lunch, someplace ritzy like Kewpees or Arts?

From: Andrew Leavitt [mailto:ALeavitt@senate.michigan.gov]
Sent: Tuesday, September 22, 2015 4:31 PM
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Date: Tuesday, September 22, 2015 at 4:15 PM
To: Andy Leavitt <aleavitt@senate.michigan.gov>
Subject: FW: Independent Water Analysis - Flint

Another old article so you have what I have.

From: Clement, Elizabeth (GOV)
Sent: Wednesday, September 23, 2015 1:40 PM
To: Muchmore, Dennis (GOV)
Subject: Re: Andy Leavitt

Thanks!

Sent from my iPad

On Sep 23, 2015, at 1:24 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> Don't forget to call andy about the supposed Flint chase and also talk about the DHHS and the controversy with lead based blood samples allegedly from water.

From: Murray, David (GOV)
Sent: Thursday, September 24, 2015 2:09 PM
To: Muchmore, Dennis (GOV)
Subject: Accepted: Conf Call re Flint Water

From: Busch, Stephen (DEQ)
Sent: Thursday, September 24, 2015 2:12 PM
To: Muchmore, Dennis (GOV)
Subject: Accepted: FW: Conf Call re Flint Water

From: Saxton, Thomas (Treasury)
Sent: Monday, September 28, 2015 5:57 PM
To: Muchmore, Dennis (GOV)
Cc: Khouri, Nick (TREASURY); Workman, Wayne (TREASURY); Stanton, Terry A. (Treasury); Wurfel, Brad (DEQ)
Subject: FW: KWA & Water Quality Chronology Timeline
Attachments: KWA & Water Quality Chronology Timeline.09-28-15.docx

Importance: High

Follow Up Flag: Follow up
Flag Status: Flagged

Dennis – attached is a first draft of a timeline. We will refine it tomorrow. We rec'd some info from Brad that we might need to incorporate. And Terry & Wayne's staff are still coming up with dates/events. Please let us know if this is what you had in mind.

Terry found these links; including an article when City Council approved the move/switch. There are some noteworthy quotes.

http://blog.mlive.com/newsnow_impact/print.html?entry=/2013/03/flint_city_council_approves_re.html

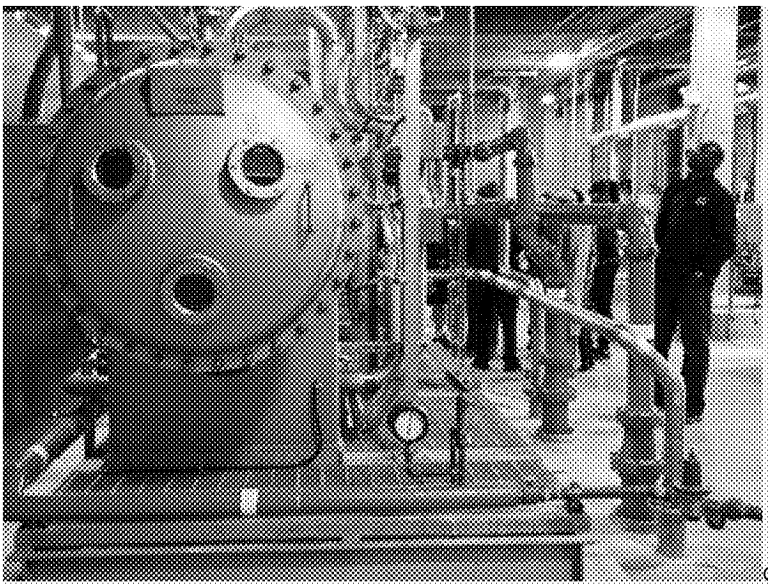
http://www.mlive.com/news/flint/index.ssf/2013/10/construction_permit_approved_s.html

Flint City Council approves resolution to buy water from Karegnondi, state approval still needed

Dominic Adams | dadams5@mlive.com By **Dominic Adams | dadams5@mlive.com** The Flint Journal

Follow on Twitter

on March 25, 2013 at 10:45 PM, updated March 26, 2013 at 1:28 AM



Guests get a look at an ozone generator at the Flint Water Treatment Plant during a public tour in this file photo. MLive.com File Photo

FLINT, MI – Flint is one step closer to getting its water from Lake Huron as part of the Karegnondi Water Authority.

The vote, **approved 7-1 at the Flint City Council meeting Monday, March 25**, may have set in motion the end to Flint paying to get its water from Detroit.

Under the proposal, Flint would get 16 million gallons per day of raw water from Lake Huron, pipe it to Flint for treatment and then sell it to customers throughout the city. Another 2 million gallons per day would come from the Flint River and will be treated in Flint.

Mayor Dayne Walling said the Department of Environmental Quality must approve Flint's getting 2 million gallons per day from the Flint River.

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"We got there," Councilman Joshua Freeman said. "That's the important thing."

There were more than 50 people at Monday's meeting.

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"It was a protest vote," Nolden said. "I knew they had enough votes. I just feel like the Flint River is our best option."

Karengnondi is the regional water authority that includes Genesee, Lapeer and Sanilac counties and the cities of Flint and Lapeer.

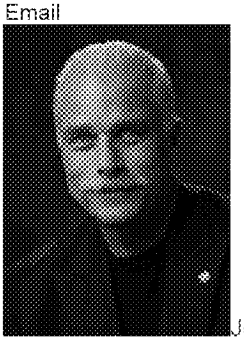
****

Massive Karegnondi water project moving forward after state OKs pipeline tap into Lake Huron

Print

By Ron Fonger | rfonger1@mlive.com The Flint Journal
on October 01, 2012 at 7:00 AM, updated October 01, 2012 at 7:32 AM

0
Reddit
Email



Jeff Wright

GENESEE COUNTY, MI -- The state has approved a critical permit that allows the Karegnondi Water Authority to tap into Lake Huron with a 1.5-mile underground intake.

But water authority officials are still waiting for Flint to decide if it will be part of it.

Construction on the intake -- estimated to cost $27 million -- might mark the no-turning-back point for the massive project, and county Drain Commissioner Jeff Wright said other developments make it necessary Flint to make a final decision on its involvement in the next few months.

As control of Flint has shifted from mayors and city councils to emergency managers, the city has never committed to buying a minimum volume of water from the KWA.

"The only question at this point really is whether Flint is going to be a partner," said Wright, who has met with emergency financial manager Ed Kurtz and wants to resolve the question before Kurtz leaves his position -- something likely to happen soon after the November election.
"I'd say we have a couple of months here," Wright said of Flint's deadline. He described Kurtz as positive about the city's potential involvement but said, "There's still some questions Flint is working on with Detroit and Lansing."

Kurtz said he can't predict what will happen.

"We're looking at all our options," Kurtz said Friday.
County Commissioner Ted Henry, D-Clayton Twp., said regardless of the city's participation, the pipeline can be built by the remaining partners: Genesee, Sanilac and Lapeer counties and the city of Lapeer.

"The answer is yes," Henry said. "It will be a little different but it can go,"

The drain commissioner said construction of the pipeline intake, which has already been designed, is expected to start this year, after the job is put out for bids and borrowing is authorized by the county Board of Commissioners.

Building the intake will be specialized work, part of which must be done from a barge, and will require building tunnels below the sand bottom of the lake and laying an 84-inch pipe below the surface of the water.

In addition to the state Department of Environmental Quality permit to build the intake, the KWA also needs approval from the U.S. Army Corp of Engineers, Wright said.

A 45-day public comment period on the intake permit has passed and county officials said they expect the permit to be approved within two weeks.

Among other recent developments in the pipeline project:

- The Genesee County Water and Waste Advisory Committee, made up of elected and appointed city, township and village officials, has voted unanimously to set a date for accepting public bids to build the intake.
- The same committee has approved negotiating a contract with Wade Trim to act as program manager for the pipeline project once all necessary permits have been received.
- The county has revised its estimate on the cost of the intake portion of the pipeline from $40 million to $27 million.

Wright said his office is ready to negotiate a contract for Wade Trim to oversee the pipeline work, and said he expects six or seven engineering and surveying companies to assist in getting the job done.

County officials count those jobs among the 1,000 that they say will be created by building the pipeline.

"I want to use local (people) wherever possible and keep the money here," Wright said.

The drain commissioner said the selection of Wade Trim is important to the city of Flint because it signals the start of engineering, which includes decisions about the size of pumps, motors and pipes that will be used to build the pipeline.

Flint officials have options, including the use of Flint River water, or continuing to purchase water from the city of Detroit.

Wright said the only choice for the rest of the county is build the pipeline or sign a 30-year contract with Detroit.

A KWA study claims that continuing to buy water from Detroit will cost the region $2.1 billion during the next 25 years. By building a pipeline, that cost would be $1.9 billion over the same period, the KWA Web site says.

After the initial 25-year period, the cost of water would be less than 25 percent of the projected cost of water form Detroit, according to KWA.

Ron Fonger can be reached at 810-347-9963. You can also follow him on Twitter @ronfonger or subscribe on Facebook.

STATE OF MICHIGAN
DEPARTMENT OF TREASURY
LANSING

RICK SNYDER
GOVERNOR

NICK A. KHOURI
STATE TREASURER

Flint Water Timeline (09-28-15)

June 26, 2012 – Letter from Flint EM Mike Brown to DWSD for permission to begin blending Flint River water with treated water from DWSD. The letter indicates that the DEQ is supporting this option and its implementation would save the City between $2M and $3M annually.

September 20, 2012 – Letter from Flint EM Ed Kurtz to DWSD requesting written permission to implement the blending option. Approval is requested by October 1, 2012.

October 31, 2012 – Analysis by the Flint Finance Director suggests that the annual cost to purchase water from DWSD will steadily increase to $23M per year by fiscal year 2020.

November 2012 – Treasury retains Tucker, Young, Jackson and Tull (TYJT) to evaluate the KWA proposal to the City of Flint.

November 6, 2012 – Letter from Flint Emergency Manager Ed Kurtz to State Treasurer Dillon that a proposal from DWSD is expected but that the initial assessment is that switching to KWA is in the best interest of the City of Flint.

February 2013 – TYJT issues a final report to Treasury on the comparison between Karegnondi Water Authority (KWA) and DWSD. Analysis suggests that the KWA option is the cheaper option for the City of Flint.

March 2013 – DWSD contacts the City of Flint to begin direct negotiations on a contract extension. Multiple options are provided to the Flint Emergency Manager (EM) Ed Kurtz.

March 26, 2013 – The Flint City Council endorses joining KWA.

April 11, 2013 – State Treasurer Andy Dillon authorizes Flint EM Ed Kurtz, pursuant to Section 12(3) of P.A. 436 of 2012, to enter into a contract with KWA if a final offer from DWSD is either not received for rejected in good faith based upon specific objections.

April 15, 2013 – DWSD provides a best and final offer to the City of Flint. Analyses by Flint EM Ed Kurtz, the Department of Environmental Quality and Treasury's Office of Fiscal Responsibility independently conclude that the KWA option is cheaper for the City of Flint.

April 16, 2013 –Flint EM Ed Kurtz informs the State Treasurer that the City will join KWA. This decision was officially announced May 1, 2013.

April 17, 2013 – DWSD transmits a letter to Flint EM Ed Kurtz terminating service to the City of Flint, effective April 17, 2014.

June 2013 – Groundbreaking for the Karegnondi Water Authority. Flint also requests full time use of the Flint Water Treatment Plant with Flint River water as a source.

June 28, 2013 – Financing Contract between the City of Flint and KWA is approved. Effective September 1, 2013. This document was signed by EM Mike Brown.

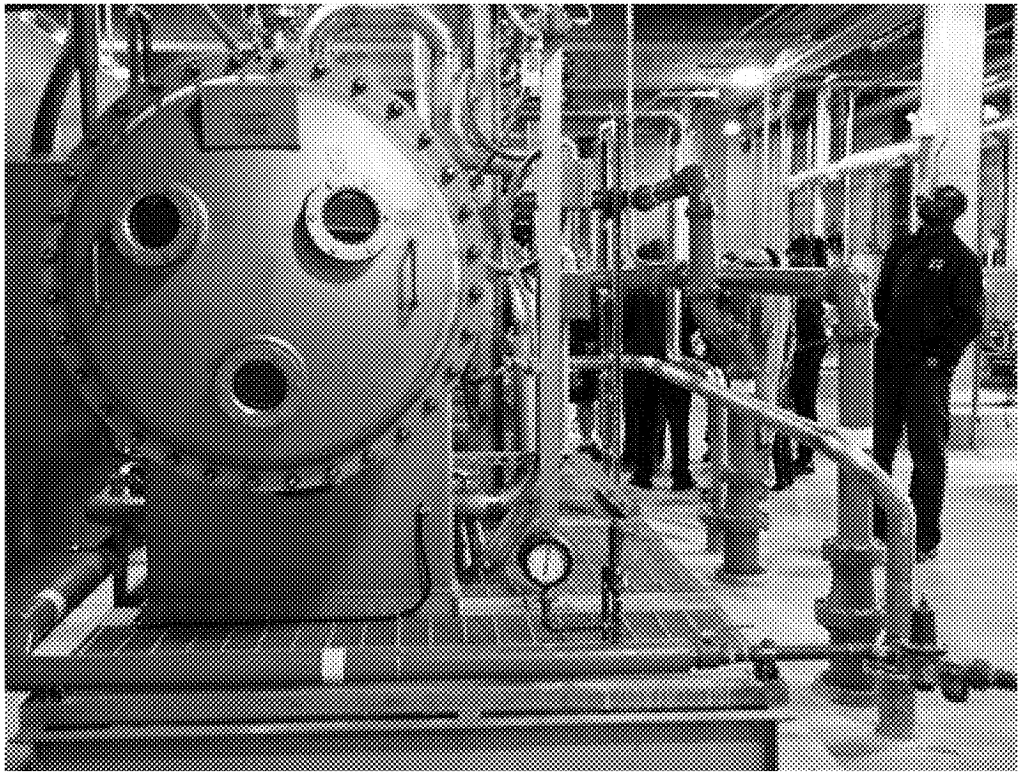
February 19, 2014 – The KWA Board of Directors adopts Resolution 2014-01, authorizing KWA to bond for water line construction on-behalf of the City of Flint.

April 17, 2014 – Water service from DWSD officially ends. The City of Flint also conducts two separate public forums regarding the use of Flint River water, upgrades to the City's water system and the overall cost of the switch to KWA.

April 25, 2014 – City conducts public event marking the transition to the use of Flint River water. DEQ information shows that transition complete by May 2015.

March 3, 2015 – Flint EM Jerry Ambrose provides a memorandum to Deputy State Treasurer Wayne Workman stating that a reconnection to DWSD will cost the City $10.1M/year and that water purchases could be as high as $1M/month.

March 12, 2015 – The City of Flint hires Veolia to conduct an operational evaluation of the City's water system.



From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Wednesday, September 30, 2015 9:25 AM
To: Muchmore, Dennis (GOV)
Subject: Re: Progress Michigan

I don't know what they said so I can't speak to denouncing them. But everyday of inaction compounds the politics of this issue. We have secured around 30 thousand dollars for a filter program from several UAW VPs as well as 50k from GM. We are still waiting on a state emergency professional to help our community react professionally and promptly. The only person I have heard from since Monday's call is Director Wyatt and he has been asking good questions and seems like he recognizes a problem and wants solutions.

I say all that to say, we are happy to quiet critics and we think the best way to do that is progress. I feel like we offered several easy steps last week that would have shown prompt action and none of that has been realized. Further, we have seen DHHS working to discredit the pediatricians in our community rather than work to help the most vulnerable.

I would prefer you and I talk about this daily so we are working together but I have called you and Beth each twice with no return. I know we are all busy but I hope you will agree that more communication during,what we view as a crisis, is the best way to keep us moving forward together.

Sent from my iPhone

On Sep 30, 2015, at 9:09 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> I assume these jerks don't represent the Minority Leader but it would be nice to see a public denunciation of them from him. I'm sure they didn't volunteer any help to the Flint people or put any effort into alleviating the difficulties the city finds itself in since they never do anything positive.

From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Thursday, October 01, 2015 5:34 PM
To: Muchmore, Dennis (GOV)
Subject: FW: info concerning expediting KWA construction
Attachments: bulletpoints-Oct2015-KWAconstruct.docx

From Jeff Wright's staff.

From: Karen Teeples <K_TEEPLES@gcdcwws.com>
Date: Thursday, October 1, 2015 at 2:42 PM
To: Andy Leavitt <aleavitt@senate.michigan.gov>
Subject: info concerning expediting KWA construction

POTENTIAL WAYS THE STATE MIGHT BE ABLE TO HELP KWA EXPEDITE PIPELINE CONSTRUCTION

1. Eliminate frost law restrictions (this would add two months of construction)

2. Additional financing:
   - Contracts have been let

   Reason:
   - Need cash to allow subcontracts
   - Need cash to expedite pipe production
   - Funding can come through mega or warrants to pipe manufacturer or additional rules on DWRF/SRF
   - Funding could come from the roadway funding as direct grants to local road commission to free up funds for pipeline work

3. Act 233 Agencies – State Permit – similar to public schools

   Reason:
   - Projects bigger than local community
   - Public safety of the larger community outweighs local politics
   - Big project – locals not equipped to handle
   - Benefits KWA – GLWA and others

4. State aid to local road commissioners' public right-of-way

   Reason:
   - Project is outside their ability to cope/handle
   - KWA could concentrate on building pipeline; local road commission could concentrate on clean-up

5. a. Clear requirements on road replacement/road repairs and utilities use of right-of-way
   b. No <u>at will</u> permits
   c. RC liable for shut downs for convenience
   d. Public utilities need not get local site plan and/or waivers

From: Saxton, Thomas (Treasury)
Sent: Thursday, October 01, 2015 8:26 PM
To: Muchmore, Dennis (GOV); Khouri, Nick (TREASURY)
Cc: Workman, Wayne (TREASURY); Stanton, Terry A. (Treasury)
Subject: Fw: follow up

Importance: High

Follow Up Flag: Follow up
Flag Status: Completed

Dennis - in response to your earlier email; Wayne's guys came up with a ballpark estimate for reconnecting to DWSD. Let me emphasize 'ballpark'. They used your assumptions & they talked to Natasha H. after 5:00. Bottom line... the estimated cost is approx $10.5mm to reconnect until June '16.
These numbers on their surface seem much improved over previous DWSD $offers. [Is Daddow in the loop on this ?] We need to give some more thought as to whether this is all inclusive. e.g., there might be some costs from turning down operations at the plant

I am being told this can happen in a relatively short time i.e., less than a week. Which seems aggressive. Obviously that does not mean the lead concerns nor discolored water, etc goes away in a week. The pipe section they sold to the county won't be an impediment to this deal.

There apparently are no 'upfront' costs we need to worry about. In theory, it seems like it can be paid over the 9-10 months (vs a lump sum). But I am not clear Dennis on those couple ideas/sources the Mayor & Senator mentioned i.e., at this point I am not sure where the $10.5mm comes from.

My guess is we will keep refining this estimate. Let us know if you need anything else. Again, "credit " Wayne's guys for pulling this together quickly.

From: Cline, Richard (Treasury)
Sent: Thursday, October 1, 2015 6:08 PM
To: Saxton, Thomas (Treasury); Koryzno, Edward (Treasury); Byrne, Randall (Treasury)
Subject: RE: follow up

City's usage is 14 MGD/Day

Timeline is 9 months until June 2016

Fixed Cost is $662,100 for 9 months or $5,958,900

Commodity Rate is $501,383/month

Total Monthly Cost is $1,163,483

Cost until June 2016 is $10,471,347

The City does not know the cost to move the water plant into stand-by mode. However, they have indicated that there might be some reduced costs as lower chemical costs will be incurred.

Eric Cline | Department Manager | State of Michigan
Michigan Department of Treasury | Local Government Financial Services Division | Fiscal Responsibility Section
430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
Lansing Office (517) 335-2078 | **PPI** | Traverse City Office (231) 922-5228
E-mail cliner1@michigan.gov

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From: Saxton, Thomas (Treasury)
Sent: Thursday, October 01, 2015 6:01 PM
To: Cline, Richard (Treasury) <cliner1@michigan.gov>; Koryzno, Edward (Treasury) <KoryznoE@michigan.gov>; Byrne, Randall (Treasury) <ByrneR1@michigan.gov>
Subject: follow up
Importance: High

I am getting ready to leave… what have you learned ?

From: Steudle, Kirk (MDOT)
Sent: Friday, October 02, 2015 10:17 AM
To: Muchmore, Dennis (GOV)
Cc: Lyon, Nick (DHHS); Wyant, Dan (DEQ)
Subject: Re: info concerning expediting KWA construction

Yep. Sure will.
I have some questions and concerns for sure.

Kirk

Sent from my iPhone

On Oct 2, 2015, at 9:41 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> Kirk could you review and talk with Dan and Nick directly.
>
> Begin forwarded message:
>
> **From:** Andrew Leavitt <ALeavitt@senate.michigan.gov>
> **Date:** October 1, 2015 at 5:34:26 PM EDT
> **To:** "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
> **Subject: FW: info concerning expediting KWA construction**
>
> From Jeff Wright's staff.
>
> ---
>
> **From:** Karen Teeples <K_TEEPLES@gcdcwws.com>
> **Date:** Thursday, October 1, 2015 at 2:42 PM
> **To:** Andy Leavitt <aleavitt@senate.michigan.gov>
> **Subject:** info concerning expediting KWA construction
>
> <bulletpoints-Oct2015-KWAconstruct.docx>

From: Workman, Wayne (TREASURY)
Sent: Wednesday, October 07, 2015 10:40 AM
To: Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Muchmore, Dennis (GOV); Wurfel, Sara (GOV); Wurfel, Brad (DEQ)
Subject: FW: How The Flint Water Crisis Emerged

Finally M Live recognizes that DWSD kicked Flint off the system.

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Widigan, Robert (TREASURY)
Sent: Wednesday, October 07, 2015 10:32 AM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Koryzno, Edward (Treasury) <KoryznoE@michigan.gov>
Cc: Schafer, Suzanne K. (Treasury) <SchaferS7@michigan.gov>
Subject: FW: How The Flint Water Crisis Emerged

This article gives a very detailed and accurate timeline from when the city decided to stop buying water from DWSD to today.

-Rob

From: Widigan, Robert (TREASURY)
Sent: Wednesday, October 07, 2015 10:29 AM
To: Schafer, Suzanne K. (Treasury) <SchaferS7@michigan.gov>; Byrne, Randall (Treasury) <ByrneR1@michigan.gov>; Cline, Richard (Treasury) <cliner1@michigan.gov>
Subject: How The Flint Water Crisis Emerged

The second slide identifies that Detroit terminated the contract with the city:
http://www.mlive.com/news/flint/index.ssf/2015/10/how_the_flint_water_crisis_eme.html#2

Robert Widigan
Local Government Financial Services Division
Michigan Department of Treasury
Office (517) 373-3227 Cell PPI

From: Becker, Timothy (DHHS)
Sent: Wednesday, October 07, 2015 1:53 PM
To: Duncan, Nancy (DTMB); Wyant, Dan (DEQ); Khouri, Nick (TREASURY); Saxton, Thomas (Treasury); Lyon, Nick (DHHS); Zimmer, Mike (LARA); Muchmore, Dennis (GOV)
Cc: Pohl, Allan (LARA); Hanley, Farah (DHHS); McNeely, Jacques (DTMB); Harkins, Chris (DTMB); Fosdick, David (DTMB); Kimmith, Dean (DTMB); Shoemaker, Lisa (DTMB); Harrison, Jennifer (DTMB); Roberts, John (DTMB); Starr, Scott (DTMB); Peruchietti, Cindy (Treasury); Epkey, Amy (DEQ)
Subject: RE: DRAFT City of Flint Solution
Attachments: City of Flint Water Funding Solution.pdf

Follow Up Flag: Follow up
Flag Status: Completed

I'm confused by this spreadsheet. At this morning's meeting the supplemental (apart from the filters) discussed was for $6m to reconnect plus $1.5m for 10 FTEs, 8 of which I understood to be in MDHHS for nurse case managers and lead abatement investigators. This spreadsheet seems to be $1.5m short of this morning's conversation. I don't have a funding source for the positions in FY 2016. If we're absorbing within existing resources I'll need a GF transfer and work project to capture FY '15 lapse.

From: Duncan, Nancy (DTMB)
Sent: Wednesday, October 7, 2015 12:14 PM
To: Wyant, Dan (DEQ) <WyantD@michigan.gov>; Khouri, Nick (TREASURY) <KhouriN@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Becker, Timothy (DHHS) <beckert1@michigan.gov>; Lyon, Nick (DHHS) <LyonN2@michigan.gov>; Zimmer, Mike (LARA) <zimmerm@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Cc: Pohl, Allan (LARA) <pohla1@michigan.gov>; Hanley, Farah (DHHS) <hanleyf@michigan.gov>; McNeely, Jacques (DTMB) <mcneelyj@michigan.gov>; Harkins, Chris (DTMB) <HarkinsC1@michigan.gov>; Fosdick, David (DTMB) <FosdickD@michigan.gov>; Kimmith, Dean (DTMB) <KimmithD@michigan.gov>; Shoemaker, Lisa (DTMB) <shoemakerl@michigan.gov>; Harrison, Jennifer (DTMB) <harrisonj1@michigan.gov>; Roberts, John (DTMB) <RobertsJ9@michigan.gov>; Starr, Scott (DTMB) <StarrS1@michigan.gov>; Peruchietti, Cindy (Treasury) <PeruchiettiC@michigan.gov>; Epkey, Amy (DEQ) <epkeya@michigan.gov>
Subject: DRAFT City of Flint Solution
Importance: High

Colleagues,

Please find attached summary of where the State Budget Office believes we are based on this morning's meeting hosted by Director Wyant. This reflects the State commitment of resources towards provision of filters, reconnecting to Detroit Water & Sewage, and home/school/other inspections. Your quick review would be appreciated, since the Governor wants to share with legislative leaders yet today. I have included your budget officers to assist in the review.

Open issues are: (1) where to place the appropriation for the Flint re-connect and (2) whether (and what) boilerplate we may need/want.

Thanks.

Nancy Duncan
Deputy State Budget Director
517-373-0870

City of Flint Water - Funding Solution
State of Michigan Commitment

Agency	GF/GP	Gross	Comments
Filters:			
MSHDA		$225,000	Does not require board approval.
Health & Human Services	$1,016,000	$1,016,000	Towards 2nd round of filters. (AY15 work project)
Health & Human Services	$0	$1,000,000	Environmental Quality - State Restricted Settlement Funds provided to HHS Emergency Services local office for 1st round of filters.
Subtotal Filters:	**$1,016,000**	**$2,241,000**	
Reconnect to DSW:			
Environmental Quality	$0	$1,000,000	State Restricted Settlement Fund support.
Health & Human Services	$0	$0	
MI Strategic Fund	$0	TBD	
State Budget Office	$5,000,000	$5,000,000	FY15 general fund lapse resources.
Subtotal Reconnect:	**$5,000,000**	**$6,000,000**	
Additional Agency Support:			
LARA	TBD	TBD	Provision of 5-7 plumbing inspectors to do schools (public and parochial) and health facilities (hospitals, Long Term Care, etc.).
Health & Human Services	TBD	TBD	Provision for home and school inspections. Cost will be absorbed within existing resources.
Environmental Quality	TBD	TBD	Provision of 2 FTEs for home and school inspections. Cost will be absorbed within existing resources.
Subtotal Additional Support:	**$0**	**$0**	
ALL TOTAL	**$6,016,000**	**$8,241,000**	

From: Duncan, Nancy (DTMB)
Sent: Wednesday, October 07, 2015 3:12 PM
To: Wyant, Dan (DEQ); Khouri, Nick (TREASURY); Saxton, Thomas (Treasury); Becker, Timothy (DHHS); Lyon, Nick (DHHS); Zimmer, Mike (LARA); Muchmore, Dennis (GOV)
Cc: Pohl, Allan (LARA); Hanley, Farah (DHHS); McNeely, Jacques (DTMB); Harkins, Chris (DTMB); Fosdick, David (DTMB); Kimmith, Dean (DTMB); Shoemaker, Lisa (DTMB); Harrison, Jennifer (DTMB); Roberts, John (DTMB); Starr, Scott (DTMB); Peruchietti, Cindy (Treasury); Pallone, Maggie (DEQ)
Subject: DRAFT #2 City of Flint Solution
Attachments: City of Flint Water Funding Solution.pdf; FW: letter from John O'Brien

Importance: High

Latest version of the Flint water issue. This is still a draft. Let me know if I have not accurately reflected your comments. NOTE: I have made no adjustments for Tom Saxton's latest e-mail on potential re-connect costs.

Assuming concurrence by the Governor, we are planning to transmit a formal supplemental request tomorrow.

Nancy Duncan
Deputy State Budget Director
517-373-0870

City of Flint Water - Funding Solution
State of Michigan Commitment

Agency	GF/GP	Gross	Comments
Filters:			
MSHDA		$225,000	Tentative
Health & Human Services	$1,016,000	$1,016,000	Towards 2nd round of filters. (AY15 work project)
Health & Human Services	$0	$1,000,000	Environmental Quality - State Restricted Settlement Funds provided to HHS Emergency Services local office for 1st round of filters.
Subtotal Filters:	**$1,016,000**	**$2,241,000**	
Reconnect to DSW:			**Reconnection costs ~$1.3m/month x 9 mos. to be shared by state & Flint**
Environmental Quality	$5,000,000	$6,000,000	DEQ State Restricted Settlement Fund of $1m; balance GF/GP
Subtotal Reconnect:	**$5,000,000**	**$6,000,000**	
Testing Costs:			
Environmental Quality	TBD	$1,000,000	Additional tests at state lab; cost per sample: $26
Subtotal Testing:	**$0**	**$1,000,000**	
Additional Agency Support:			
LARA	$0	$200,000	Support for plumbing inspectors to do schools (public and parochial) and health facilities (hospitals, Long Term Care, etc.).
Health & Human Services	TBD	TBD	Follow-up on children with elevated blood levels
Environmental Quality	TBD	$300,000	Home and school inspections.
Subtotal Additional Support:	**$0**	**$500,000**	
ALL TOTAL	**$6,016,000**	**$9,741,000**	

From: Saxton, Thomas (Treasury)
Sent: Wednesday, October 07, 2015 2:43 PM
Subject: FW: letter from John O'Brien
Attachments: SKM_C554e15100712200.pdf

Importance: High

Here is the letter from the Genesee Co Drain Commission. My interpretation of the contents would be their estimate is $13.2mm (vs the $12mm discussed this morning).

They included their contract with the City. Sec 5.7 references prevailing rates the City would be charged; that is different than the rates reflected in the $13.2mm. So that contract may need to be modified.

They also raise some other items (under *Procedure to Activate Supply* -- p.3) that may have cost implications.

GENESEE COUNTY DRAIN COMMISSIONER'S OFFICE
- DIVISION OF -
WATER & WASTE SERVICES
G-4610 BEECHER ROAD - FLINT, MICHIGAN 48532-2617
PHONE (810) 732-7870 - FAX (810) 732-9773

JEFFREY WRIGHT
COMMISSIONER

MEMORANDUM

DATE: October 7, 2015

TO: Wayne Workman, Deputy Director, Treasury Department
Randall Byrne, State Administrative Manager

FROM: John F. O'Brien, P.E., Director

SUBJECT: Letter Dated September 30, 2015
Wolfson to Henderson

My staff and I have reviewed the letter referenced above and have prepared this quick memorandum to explain the economics concerns and ramifications of the temporary cessation of the Flint water treatment operations and the return to DWSD/GLWA supply.

This memorandum is broken down into three parts: economics, procedure and concerns.

Economics

Prior to April 2014, Flint held a water contract with DWSD. Flint also had the franchise rights to DWSD water for Genesee County. Therefore, Genesee County received DWSD water via the Flint. The water rate was calculated on that joint demand. In 2013-2014, the allocated cost was $25,303,062 or $738,066 per month plus $13.01 per mcf.

In 2013, DWSD terminated the Flint contract effective April 2014. The Flint chose to go to the Flint River as its source water until KWA water was made available. With the contract terminated, the franchise was terminated and the county had to go to DWSD for water because Flint could no longer supply DWSD water and the Flint River and the Flint water treatment plant does not have the capacity to serve both utilities.

DWSD established a new rate for GCDC that included significant non-contract and non-member charges to access the water. GCDC also acquired approximately 9 miles of water main pipe from the Flint. (The Detroit water meter at the county line between Lapeer and Genesee and the Flint water plant is approximately 11 miles into the county.) The pipeline is of no use to Flint under the Flint River supply or KWA supply scenario. As part of the purchase agreement, language was included for emergency reconnection for Flint to DWSD through this water line.

GCDC water rates with DWSD are as follows:

	Fixed Monthly	Commodity
July 2013 – April 2014 (Flint Contract)	$346,863	$13.01
May 2014 – June 2014	$423,400	$15.18
July 2014 – June 2015	$1,149,400	$3.89
July 2015 – Present	$900,000	$11.86

As you can see, the fixed monthly fees and commodity fees have had significant swings. This is because under the Flint contract, only 40% of revenue was fixed. GCDC went to 80% and are now 60% for the current billing period.

Upon reviewing DWSD's letter of September 2015, DWSD went back to the 2013-2014 rate, added 4% for FY 14-15 and added approximately 11.3% for FY 15-16. This would create a water revenue requirement for a combined Flint/Genesee supply. In Section 1 d) of the letter, they state they would subtract GCDC current payments from that volume, leaving the amount to be paid by Flint. Remember, GCDC is paying the non-contract/non-customer penalty charges.

The reported rate would be $662,100 monthly fixed and $8.93/mcf commodity. Based on 15 million gallons a day and a 30 day month, the monthly charge would be:

$662,100 + 15,000,000 gal x 30 days x 1 mcf / 7,480 gallons x $8.93 / mcf

$662,100 + $537,232.62 = $1,199,332.62 per month

Flint, over the last two seasons, has seen periods of water flow in the 20 to 25 mgd range due to water main breaks. This period has lasted 2 to 3 months. What is the additional cost if the monthly average was 21 mgd?

6,000,000 x 30 / 7,480 x $8.93 / mcf = $214,893.04 per month

The only way for DWSD to provide water to Flint is a common meter at the county line and flow through a county water main. As previously stated, the Flint and GCDC have a contract regarding this potential circumstance (see 5.7 attached).

Assuming the fixed rate by DWSD is correct, the cost with the current commodity would be:

$662,100 + 15,000,000 x 30 / 7,480 x $11.86 = $1,375,602.67

And again, with water main breaks, the additional monthly cost would be $285,401.00.

Paragraph 1 d) of the DWSD letter recognizes this issue in the last sentence: "Depending on how water is provided to the combined GCDC/Flint customer, alternative rate structures may be appropriate."

We can back into that alternate rate based on our knowledge of the DWSD rate structure. DWSD wants 60% of its revenue from fixed rate.

		Volume per month
GCDC fixed	$900,000	49,428 mcf
Flint fixed	$662,100	50,590 mcf
TOTAL	$1,562,100	100,018 mcf

Total commodity required is $1,041,400
Rate based on volume $10.41would be the alternative rate

The adjusted rate for Flint would then be:

50% of fixed rate plus $10.41 per mcf
$781,050 + $15,000,000 + 30 / 7,480 x $10.41 = $1,407,320

And again, at this rate, the water main break situation could add $250,508 per month

Therefore, Flint's expected bill for DWSD supplied water for a nine month period with 2 months of high flow would be $13,166,896.

Procedure to Activate Supply

1. Agreement with DWSD and common rate for joint GCDC/Flint water supply would be required. Agreement needs to include separate billings to Flint and GCDC, Flint to pay directly to DWSD based on meter readings at Baxter and Potter and Station 2 on Flint plant site. GCDC makes no representation to the water quality - that is between Flint and DWSD. The agreement needs a termination transfer protocol for Flint exiting and GCDC remaining.

2. Separate agreement with Flint: back up supply was anticipated on an emergency basis. Nine months to a year of service requires a more detailed agreement. Water outage due to line break and cost to repair, etc. The agreement needs a termination clause if Flint is still on DWSD when GCDC is ready to turn on its water treatment plant in the fall of 2017.

3. The 72-inch line will be required to be reactivated. This will require flushing, pressure testing, and BAC-T sampling.

4. Station 2 meter needs to be calibrated and GCDC will need access to control the valves and read the meters.

5. Flint needs to reactivate the Dort Reservoir.

6. Flint should perform a significant water flush of the distribution system just prior to the switch over.

Flint Distribution System

The TTHM and lead issues here arising due to the water quality at the residential tap: Everyone agrees that the water leaving the water plant is clean, clear, and lead-free. At the residential tap, it has been shown to contain lead, is often brown in color, and has an odor. These are all indications of problems in the distribution system. The distribution system was built for a population of 250,000 people and major industrial use. Current population is below 100,000 and there is limited industrial use.

If Flint does not continue to make improvements/modifications to the distribution system, the problem at the residential tap will continue.

Concerns

Will the lead sampling protocols change based on Flint's switch back to DWSD?

What happens to water treatment plant personnel during this 9-month period? Will they be laid off or carried as an additional expense?

When Flint switches to KWA, will the staff be capable of treating the water or will the learning curve begin again?

What is the Desired Outcome?

It is the understanding of GCDC that all of the current samples that have been compiled at the Flint Water Treatment Plant have all tested within EPA and MDEQ guidelines. The emergency appears to be in the distribution of the water, which includes lead service leads to several residences located throughout Flint and not in the treatment of the water. As the treated water leaving the Flint Water Treatment Plant is within EPA and MDEQ guidelines, GCDC is confused as to what the emergency is at this time or why Flint would need to purchase water from DWSD. *The quality of the water leaving the Flint Water Treatment Plant is as safe to drink as the water that would be transmitted by DWSD to Flint.*

Given the facts as they have been provided to GCDC, if DWSD begins to supply Flint with water via GCDC, the elevated lead levels will not immediately disappear and Flint will be paying an additional million dollars plus a month over what it is currently paying to provide the same clean potable water to its residents. Additionally, by Flint receiving water from DWSD via GCDC, Flint will not be performing corrosion control measures on the DWSD treated water. This is important because once Flint begins to treat the raw water provided by KWA, the lead issue may resurface and continue until the corrosion control measures that will need to be restarted take effect, which GCDC estimates may take up to eight (8) months to establish the necessary film to separate the distribution system from the supply water.

The DWSD letter purposely pits Flint against Genesee County customers by offering a lower rate to Flint than is currently being offered to GCDC. And the delivery point is the same.

These are our quick thoughts on the matter. As time progresses, we will have more time to understand the issues and most likely additional concerns will present themselves.

Should you have any questions, do not hesitate to contact this office at your convenience.

WATER TRANSMISSION MAIN

ACQUISITION AGREEMENT

BY AND BETWEEN

CITY OF FLINT

AND THE

GENESEE COUNTY DRAIN COMMISSIONER AS COUNTY AGENCY

DATED MAY 30, 2014

approval, clearance, waiver, order or authorization of any person, organization, or entity; and (iii) do not conflict with, or result in any breach of, or default or loss of any right under (or an event or circumstance that, with notice or the lapse of time, or both, would result in a default), or the creation of any encumbrance pursuant to, or cause or permit the acceleration prior to maturity of any amounts owing under any indenture, mortgage, deed of trust, lease or other agreement to which the County Agency is a party, which failure, violation, conflict or breach would, in the aggregate, materially hinder or impair the consummation of the transactions contemplated by this Agreement.

5.4 Litigation. As of the Execution Date, there is no action, suit or proceeding pending or threatened against or affecting the County Agency before any governmental entity in which there is a reasonable possibility of an adverse decision which could have a material adverse effect upon the ability of the County Agency to perform its obligations under this Agreement or which in any manner questions the validity of this Agreement.

5.5 Due Diligence and Inspection. The County Agency acknowledges that it is being afforded the opportunity to conduct due diligence and investigation with respect to the transaction contemplated by this Agreement. The County Agency represents and warrants that it has conducted any and all such legal, factual, and other examinations, inquiries, investigations, and inspections, including conducting any tests, studies and examinations, that it, in its sole discretion, has determined necessary to complete such due diligence inspection to determine that the subject matter of this Agreement is suitable for the County Agency's intended use.

5.6 Environmental Matters. The County Agency represents and warrants that it has conducted any and all such legal, factual, and other examinations, inquiries, investigations, and inspections, including conducting any tests, studies and examinations, that it, in its sole discretion, has determined necessary to complete such due diligence inspection to have full knowledge of the environmental condition of the subject matter of this Agreement. County Agency shall enter into this Agreement subject to any and all environmental conditions present upon the subject matter of this Agreement.

5.7 Emergency Water Supply. The County Agency warrants that it will provide, to the extent the Detroit Water and Sewerage Department has available capacity, treated water through the water main that is the subject matter of this Agreement in an emergency situation to Flint until such time as the Karegnondi Water Authority Water Transmission Pipeline construction is completed (which is estimated to be completed by May 2017) and the Karegnondi Water Authority is providing raw water to its customers.

The emergency supply of treated water to the Flint by the County Agency during the construction of the Karegnondi Water Authority Water Transmission Pipeline shall be at the prevailing rate and any additional charges, fees, special charges, and penalties, as billed by the Detroit Water and Sewerage Department to the County Agency.

If Flint shall need an emergency water supply after the Karegnondi Water Authority Water Transmission Pipeline has been installed and is operational, the County Agency will provide, to the extent the County Agency has available capacity, treated water through the water main that is the subject matter of this Agreement in an emergency situation to Flint. The emergency supply of treated water to Flint by the County Agency after the Water

Transmission Pipeline has been installed and is operational, shall be at the prevailing rate and any additional charges, fees, special charges, and penalties, if applicable, as billed by the Detroit Water and Sewerage Department to the County Agency.

ARTICLE 6
COVENANTS OF FLINT

Flint covenants and agrees with the County Agency as follows:

6.1 Operation and Maintenance of the Water Main until Closing. Between the Execution Date of this Agreement and the Effective Date of this Agreement, Flint shall:

a. Operate the Water Main in the ordinary course of business; and

b. Maintain all books and records relating to the operation of the Water Main in the ordinary course of business; and

c. Fix any known breaks or leaks in the Water Main, except those set forth on Exhibit E; and

e. Promptly notify the County Agency of any emergency or other change in the normal course relating to the Water Main (or communications indicating that the same may be contemplated.

6.2 Litigation and Claims. Flint shall promptly inform the County Agency in writing of any Claims of which Flint is or becomes aware that are or might reasonably be expected to become the subject of litigation affecting the Water Main or the transactions contemplated by this Agreement.

6.3 Notice of Changes. Flint shall inform the County Agency in writing if it becomes aware that any representation or warranty made by Flint in this Agreement has ceased to be accurate or if Flint becomes aware of the occurrence of any breach of any covenant or other agreement required by this Agreement to be performed or complied with by Flint.

ARTICLE 7
COVENANTS OF THE COUNTY AGENCY

The County Agency hereby covenants and agrees with Flint as follows:

7.1 Cooperation. Subject to the terms and conditions of this Agreement, the County Agency shall cooperate with Flint to use its best efforts to secure all necessary consents, approvals, authorizations, exemptions and waivers from all persons and entities as shall be requested by Flint or required to be obtained in order to consummate the transactions contemplated hereby.

7.2 Litigation and Claims. The County Agency shall promptly inform Flint in writing of any claims (or communications indicating that the same may be contemplated) of which the County Agency is or becomes aware that are or might reasonably be expected

From: Deb Muchmore <muchmored@krkm.com>
Sent: Wednesday, October 07, 2015 3:19 PM
To: Muchmore, Dennis (GOV)
Subject: Thought

On Flint, you may want to reach out to Jim Lukaszewski (Luke-ah-sheff-ski) for critical help. I've work a fair bit with him, know him, etc. He could be very helpful on guidance – the issue is getting worse (note Erin Brockovich is now targeting). http://www.e911.com/

The other that I might suggest is Peter Sandman. I've also worked with him – know him, too. He is an outrage management expert. Has a different way of navigating issues and is very well regarded. Different approach than Jim. http://psandman.com/

I think you guys need someone like either/both of these guys to help provide some forest for trees help, messaging help, etc. I don't like the way the issue is being handled, reported, etc. You need some help.

KR KM
Deborah A. Muchmore | Partner
KANDLER REED KHOURY & MUCHMORE
124 W Allegan | Suite 1700
Lansing, MI 48933
(517) 485-4044 | Office
PPI
KRKM.com

From: Utley, Corey (GOV)
Sent: Wednesday, October 07, 2015 6:17 PM
To: 'aleavitt@senate.mi.gov'
Cc: Muchmore, Dennis (GOV)
Subject: Press Conference details

Hi Andy:

As I mentioned on the phone, the Governor will be at a press conference tomorrow (Thursday) at 10 AM with an update on Flint water. We would welcome the Senator to join us but the event will not be open to the public and the invitation is only for the Senator.

10 AM
Mott Foundation Conference Center
503 S. Saginaw
Flint

My contact info is below and you/he are welcome to contact me with questions.

Thank you!
Corey

Corey Utley
Advance Coordinator
Executive Office of Governor Rick Snyder
work 517.241.2312
cell PPI
utleyc@michigan.gov

From: Roberts, John (DTMB)
Sent: Wednesday, October 07, 2015 9:14 PM
To: Muchmore, Dennis (GOV)
Subject: Re: letter from John O'Brien

Are you ok with the Flint funding request I sent tonight?

John Roberts

On Oct 7, 2015, at 3:32 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> What do you think? We could dedicate some of the funds in the bottle deposit escrow account to this.
>
> ---
>
> **From:** Saxton, Thomas (Treasury)
> **Sent:** Wednesday, October 7, 2015 2:43 PM
> **To:** Wyant, Dan (DEQ) <WyantD@michigan.gov>; Sygo, Jim (DEQ) <SygoJ@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Roberts, John (DTMB) <RobertsJ9@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>; Lyon, Nick (DHHS) <LyonN2@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
> **Cc:** Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Khouri, Nick (TREASURY) <KhouriN@michigan.gov>; Duncan, Nancy (DTMB) <duncann1@michigan.gov>
> **Subject:** FW: letter from John O'Brien
> **Importance:** High
>
> Here is the letter from the Genesee Co Drain Commission. My interpretation of the contents would be their estimate is $13.2mm (vs the $12mm discussed this morning).
>
> They included their contract with the City. Sec 5.7 references prevailing rates the City would be charged; that is different than the rates reflected in the $13.2mm. So that contract may need to be modified.
>
> They also raise some other items (under *Procedure to Activate Supply* -- p.3) that may have cost implications.
>
> <SKM_C554e15100712200.pdf>

From: Saxton, Thomas (Treasury)
Sent: Thursday, October 08, 2015 1:17 PM
To: Muchmore, Dennis (GOV); Duncan, Nancy (DTMB)
Cc: Workman, Wayne (TREASURY); Khouri, Nick (TREASURY); Wyant, Dan (DEQ); Baird, Richard (GOV); Roberts, John (DTMB); Hollins, Harvey (GOV)
Subject: RE: letter from John O'Brien

I agree with Dennis… Consistent with what I think we (Wayne & I) said at the DEQ meeting yesterday… the county drain commission has more knowledge & experience running a water system than we (Treasury) do. That is why we were trying to get some outside verification. We were not able to get an outside engineering firm engaged due to the timeframe. Our fallback was Jeff Wright – the drain commissioner. He calculated $13.2mm. We did a 'back of the envelope' analysis of $10.5mm late last week. That was based off an email we rec'd from Dennis that summarized the DWSD/City proposal. We were not a part of the $12mm calculation that is in the 'public' realm now. I believe that was a result of a meeting DEQ/Dan had with the City earlier this week.
John indicated yesterday he would recommend/prefer to err on the side of caution for the amount requested from the legislature. Plus, keep in mind whatever number you choose assumes completion of KWA in June. If the project slips a month (& it very well could given it is a major capital project) the cost of the reconnect is going to go up a $1mm+ per month.
If it is possible I would recommend using the $13.2mm (hoping the project will be done as scheduled) given the county is in the best position to make that estimate. We don't have any info that would contradict that number.

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 08, 2015 1:13 PM
To: Duncan, Nancy (DTMB) <duncann1@michigan.gov>
Cc: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Khouri, Nick (TREASURY) <KhouriN@michigan.gov>; Wyant, Dan (DEQ) <WyantD@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>; Roberts, John (DTMB) <RobertsJ9@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Subject: Re: letter from John O'Brien

I would say we need to add the $1.2 difference from somewhere. I suggest we hold on to the idea of the bottle deposit escrow as we can easily take $1m droit if need t.

Sent from my iPhone

On Oct 8, 2015, at 10:39 AM, Duncan, Nancy (DTMB) <duncann1@michigan.gov> wrote:

> We're still carrying $12m as the cost to reconnect, and that's the number the Governor is using too. John would like your assessment of the need given the information in this letter. We plan to send a supplemental request to the Legislature for our $6m share this afternoon.
>
> ---
>
> **From:** Saxton, Thomas (Treasury)
> **Sent:** Wednesday, October 07, 2015 2:43 PM
> **To:** Wyant, Dan (DEQ); Sygo, Jim (DEQ); Muchmore, Dennis (GOV); Roberts, John (DTMB); Baird, Richard (GOV); Lyon, Nick (DHHS); Hollins, Harvey (GOV)
> **Cc:** Workman, Wayne (TREASURY); Khouri, Nick (TREASURY); Duncan, Nancy (DTMB)

Subject: FW: letter from John O'Brien
Importance: High

Here is the letter from the Genesee Co Drain Commission. My interpretation of the contents would be their estimate is $13.2mm (vs the $12mm discussed this morning).

They included their contract with the City. Sec 5.7 references prevailing rates the City would be charged; that is different than the rates reflected in the $13.2mm. So that contract may need to be modified.

They also raise some other items (under *Procedure to Activate Supply* -- p.3) that may have cost implications.

From: Baird, Richard (GOV)
Sent: Thursday, October 08, 2015 4:18 PM
To: Saxton, Thomas (Treasury); Muchmore, Dennis (GOV); Duncan, Nancy (DTMB)
Cc: Workman, Wayne (TREASURY); Khouri, Nick (TREASURY); Wyant, Dan (DEQ); Roberts, John (DTMB); Hollins, Harvey (GOV)
Subject: RE: letter from John O'Brien

I know you've had enough email traffic on this, but for what it's worth, Daddow thinks the number will be lower as a result of GM removing themselves from the system.

From: Saxton, Thomas (Treasury)
Sent: Thursday, October 08, 2015 1:17 PM
To: Muchmore, Dennis (GOV); Duncan, Nancy (DTMB)
Cc: Workman, Wayne (TREASURY); Khouri, Nick (TREASURY); Wyant, Dan (DEQ); Baird, Richard (GOV); Roberts, John (DTMB); Hollins, Harvey (GOV)
Subject: RE: letter from John O'Brien

I agree with Dennis… Consistent with what I think we (Wayne & I) said at the DEQ meeting yesterday… the county drain commission has more knowledge & experience running a water system than we (Treasury) do. That is why we were trying to get some outside verification. We were not able to get an outside engineering firm engaged due to the timeframe. Our fallback was Jeff Wright – the drain commissioner. He calculated $13.2mm. We did a 'back of the envelope' analysis of $10.5mm late last week. That was based off an email we rec'd from Dennis that summarized the DWSD/City proposal. We were not a part of the $12mm calculation that is in the 'public' realm now. I believe that was a result of a meeting DEQ/Dan had with the City earlier this week.
John indicated yesterday he would recommend/prefer to err on the side of caution for the amount requested from the legislature. Plus, keep in mind whatever number you choose assumes completion of KWA in June. If the project slips a month (& it very well could given it is a major capital project) the cost of the reconnect is going to go up a $1mm+ per month.
If it is possible I would recommend using the $13.2mm (hoping the project will be done as scheduled) given the county is in the best position to make that estimate. We don't have any info that would contradict that number.

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 08, 2015 1:13 PM
To: Duncan, Nancy (DTMB) <duncann1@michigan.gov>
Cc: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Khouri, Nick (TREASURY) <KhouriN@michigan.gov>; Wyant, Dan (DEQ) <WyantD@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>; Roberts, John (DTMB) <RobertsJ9@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Subject: Re: letter from John O'Brien

I would say we need to add the $1.2 difference from somewhere. I suggest we hold on to the idea of the bottle deposit escrow as we can easily take $1m droit if need t.

Sent from my iPhone

On Oct 8, 2015, at 10:39 AM, Duncan, Nancy (DTMB) <duncann1@michigan.gov> wrote:

We're still carrying $12m as the cost to reconnect, and that's the number the Governor is using too. John would like your assessment of the need given the information in this letter. We plan to send a supplemental request to the Legislature for our $6m share this afternoon.

From: Saxton, Thomas (Treasury)
Sent: Wednesday, October 07, 2015 2:43 PM
To: Wyant, Dan (DEQ); Sygo, Jim (DEQ); Muchmore, Dennis (GOV); Roberts, John (DTMB); Baird, Richard (GOV); Lyon, Nick (DHHS); Hollins, Harvey (GOV)
Cc: Workman, Wayne (TREASURY); Khouri, Nick (TREASURY); Duncan, Nancy (DTMB)
Subject: FW: letter from John O'Brien
Importance: High

Here is the letter from the Genesee Co Drain Commission. My interpretation of the contents would be their estimate is $13.2mm (vs the $12mm discussed this morning).

They included their contract with the City. Sec 5.7 references prevailing rates the City would be charged; that is different than the rates reflected in the $13.2mm. So that contract may need to be modified.

They also raise some other items (under *Procedure to Activate Supply* – p.3) that may have cost implications.

Message

From: Kevin K. Kilby [kkilby@mcgrawmorris.com]
Sent: 10/12/2015 4:37:38 PM
To: Workman, Wayne (TREASURY) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=91104e2ff72646419e6955d950f6ec8a]; Muchmore, Dennis (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Muchmored]; Wyant, Dan (DEQ) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=57e17534bc6d44b990e757afc8d8799d]
CC: 'Kevin K. Kilby' [kkilby@mcgrawmorris.com]; 'John O'Brien' [jfobrien@gcdcwws.com]; 'David Jansen' [djansen@gcdcwws.com]
Subject: Letter to Wolfson October 12 final
Attachments: Letter to Wolfson October 12 final.pdf; Request From Flint.pdf; Letter to Wolfson Final.pdf

Gentleman –

I represent the Genesee County Drain Commissioner's Office. The Commissioner requested that I send you the attached information regarding DWSD supplying water to Flint.

Sincerely,

Kevin Kilby

Partner and Attorney at Law

McGraw Morris P.C.

2075 W. Big Beaver Road

Suite 750

Troy, Michigan 48084

Office: (248) 502-4000

Fax: (248) 502-4001

Cellular: PPI

kkilby@mcgrawmorris.com

www.mcgrawmorris.com

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2075 W. BIG BEAVER ROAD
SUITE 750
TROY, MICHIGAN 48084
TELEPHONE: (248) 502-4000
FACSIMILE: (248) 502-4001

October 12, 2015

Via Email: wolfson@dwsd.org
William M. Wolfson
Chief Administrative and Compliance Officer/General Counsel, DWSD
Interim General Counsel, GLWA
735 Randolph Street
Detroit Michigan 48226

Re: Increase in average day and maximum peak day by GCDC

Dear Mr. Wolfson:

The Genesee County Drain Commissioner's Office, Division of Water and Waste Services ("GCDC") has been working diligently to fulfill the demands of the various state and federal agencies, Governor Snyder, and the people of the City of Flint ("Flint"), to provide Flint with water from the Detroit Water and Sewerage Department ("DWSD"). These efforts include placing approximately seven (7) miles of the seventy-two inch (72") water transmission pipeline ("Pipeline") that GCDC purchased from Flint back into service, pressurizing the Pipeline, disinfecting the Pipeline, flushing the Pipeline, and performing Bac-T testing on the water inside of the Pipeline. Once these efforts have materialized and GCDC has received two (2) negative Bac-T tests, GCDC will be in a tactical position to furnish DWSD water to Flint as early as midweek.

On October 8, 2015, I sent you a letter after GCDC received a formal request from Flint for GCDC to provide DWSD water to Flint pursuant to a previous written agreement between GCDC and Flint. As of today, I have not received your response. In the October 8, 2015, letter I requested the following:

> GCDC has received a formal request from Flint to receive DWSD water via GCDC per GCDC's contract with Flint. GCDC's rates are currently based on 12 mgd average day and 25 mgd maximum peak day. Does DWSD have the capacity to increase demand to GCDC to 28.5 mgd average day and 51 mgd peak day? If so, could you please provide GCDC with the rates for 28.5 mgd average and 51 mgd peak day through June 30, 2016?

Attorney Anthony Chubb from Flint has provided me with a proposed WATER SERVICE CONTRACT BETWEEN CITY OF DETROIT AND CITY OF FLINT ("Contract"). This Contract makes the assumption that Flint has a separate connection to the DWSD water distribution system. The interconnect between the DWSD water system and the Flint water system is owned by GCDC. Flint does not have a separate connection to the DWSD water distribution system. Any water that Flint receives

from DWSD is required to flow through GN-01. Additionally, GCDC has received no communication from DWSD on this subject since the Flint water issue surfaced. Simply stated, DWSD has the ability to service Flint with water only through the interconnect owned by GCDC.

GCDC is working diligently to move forward with Flint receiving DWSD water; however, GCDC cannot do anything until it has an agreement with DWSD and Flint as to how the DWSD water will be transmitted to Flint. Right now, Flint is requesting GCDC to provide DWSD water GN-01 pursuant to the written agreement between GCDC and Flint. Additionally, Flint has also request DWSD to provide Flint with water with the understanding that DWSD has no way to transmit the water to Flint. There is no question that Flint wants and eventually will be serviced with DWSD water; however, DWSD and Flint cannot continually ignore the fact that GCDC owns and operates the interconnect between DWSD and Flint.

GCDC has been working diligently to assist Flint in receiving DWSD water; however, DWSD to date has been unwilling to provide GCDC the information it needs so that Flint may switch over the DWSD water. When you have prepared your response, please send it to kkilby@mcgrawmorris.com or contact Director John O'Brien at 810-732-7870.

Sincerely,

MCGRAW MORRIS P.C.

Kevin K. Kilby
Attorney at Law

Cc: Jeff Wright, Drain Commissioner, GCDC
John O'Brien, Director GCDC
Dennis Muchmore, Chief of Staff, Governor's Office, w/attachments
Wayne Workman, Deputy Treasurer, Michigan Department of Treasury, w/attachments
Dan Wyant, Director, MDEQ, w/attachments
Laurie Koester, DWSD
Dayne Walling, Mayor, City of Flint
Anthony Chubb, Attorney, City of Flint

N:\GCDC\2155-1000 (General)\Contracts and Agreements\Flint Emergency Water Purchase\Letter to Wolfson October 12 final.doc

John O'Brien

From: achubb@cityofflint.com
Sent: Thursday, October 08, 2015 12:30 PM
To: John O'Brien; Kevin Kilby
Cc: Byrne, Randall (Treasury); wyantd@michigan.gov; workmanw@michigan.gov; Warren Vyvyan; Dayne Walling; Peter Bade; Natasha Henderson
Subject: Re: DWSD

John and Kevin,

Per our contract, the City is requesting flow of 16.5mgd average, 26mgd max flow. Please notify of intent to provide and costs as soon as possible.

Anthony Chubb
Interim Director of Human Resources and Labor Relations
Deputy City Attorney
City of Flint

Sent from my iPhone

On Oct 8, 2015, at 11:51 AM, John O'Brien <jfobrien@gcdcwws.com> wrote:

> Tony
>
> The County and City Have a current contract we will honor that agreement.
> The DWSD recognizes this issue as identified in the last sentence of paragraph 1 d)
>
> John
>
> **From:** Anthony Chubb [mailto:achubb@cityofflint.com]
> **Sent:** Thursday, October 08, 2015 11:25 AM
> **To:** John O'Brien <jfobrien@gcdcwws.com>; Kevin K. Kilby <kkilby@mcgrawmorris.com>
> **Subject:** Fwd: DWSD
>
> See below. I had your old email in my history.
>
> Anthony Chubb
> Interim Director of Human Resources and Labor Relations
> Deputy City Attorney
> City of Flint
> 1101 S. Saginaw Street, 3rd Floor
> Flint, MI 48502
>
> (810) 237-2078
>
> This communication, along with any documents, files or attachments, is intended only for the use of the addressee and may contain legally privileged and confidential information. If you are not the intended

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2075 W. BIG BEAVER ROAD
SUITE 750
TROY, MICHIGAN 48084
TELEPHONE: (248) 502-4000
FACSIMILE: (248) 502-4001

October 8, 2015

Via Email: wolfson@dwsd.org
William M. Wolfson
Chief Administrative and Compliance Officer/General Counsel, DWSD
Interim General Counsel, GLWA
735 Randolph Street
Detroit Michigan 48226

Re: Increase in average day and maximum peak day by GCDC

Dear Mr. Wolfson:

GCDC has received a formal request from Flint to receive DWSD water via GCDC per GCDC's contract with Flint. GCDC's rates are currently based on 12 mgd average day and 25 mgd maximum peak day. Does DWSD have the capacity to increase demand to GCDC to 28.5 mgd average day and 51 mgd peak day? If so, could you please provide GCDC with the rates for 28.5 mgd average and 51 mgd peak day through June 30, 2016?

As you are aware, time is of the essence. I would respectfully ask that if at all possible you could provide answers to the above two (2) questions stated above by 5:00 p.m. today. It is anticipated that if DWSD has the capacity and all of the issues between Flint and GCDC are resolved, GCDC anticipates providing Treated Water to Flint within the next seven (7) days.

If you should have any questions or concerns regarding this communication, please feel free to contact me at 810-569-0352 or via email at kkilby@mcgrawmorris.com.

Sincerely,

MCGRAW MORRIS P.C.

Kevin K. Kilby
Attorney at Law

N:\GCDC\2155-1000 (General)\Contracts and Agreements\Flint Emergency Water Purchase\Letter to Wolfson Final.doc

From: Workman, Wayne (TREASURY)
Sent: Tuesday, October 13, 2015 9:38 AM
To: Muchmore, Dennis (GOV)
Cc: Saxton, Thomas (Treasury)
Subject: Re: Flint

Checking on it now

Sent from my iPhone

> On Oct 13, 2015, at 9:07 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:
>

Not Responsive Of course, I have a lot of complaints about myself and this Flint thing. If I had acted more quickly on some of my minister's complaints we at least would have had a more robust discussion. Do we have a copy of the Veolia conclusions somewhere?

From: Lyon, Nick (DHHS)
Sent: Tuesday, October 13, 2015 9:41 AM
To: Muchmore, Dennis (GOV); Wyant, Dan (DEQ); Khouri, Nick (TREASURY)
Subject: RE: What's the latest on Flint?

Dan has put together an action plan from the DEQ perspective. We have provided contact names for the items on his list that need to be joint DEQ/DHHS. We are potentially adding items to that list but need to work through our plan as we will have to work with local providers, the hospital, health plans, etc. We are doing that today. We are looking at testing, home lead investigations, but NOT remediation. That would still be the responsibility of the homeowner. I would expect that will be the next demand.

I've heard some grumbling around the supplemental. Some members feel it should be a loan, others worry that we are setting a precedent that the state will be asked to pay for similar upgrades in the future. We'll know more quickly on how they are going to react.

Jarrod has scheduled a phone call for tomorrow.

That's what I know.

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 13, 2015 8:40 AM
To: Wyant, Dan (DEQ) <WyantD@michigan.gov>; Lyon, Nick (DHHS) <LyonN2@michigan.gov>; Khouri, Nick (TREASURY) <KhouriN@michigan.gov>
Subject: What's the latest on Flint?

From: Saxton, Thomas (Treasury)
Sent: Tuesday, October 13, 2015 9:47 AM
To: Workman, Wayne (TREASURY); Muchmore, Dennis (GOV)
Subject: RE: Flint
Attachments: Flint Water Quality Report Veolia March 15.pdf

Attached is the report. The report is fairly short & quickly identifies actions that should be taken.

-----Original Message-----
From: Workman, Wayne (TREASURY)
Sent: Tuesday, October 13, 2015 9:38 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Cc: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>
Subject: Re: Flint

Checking on it now

Sent from my iPhone

> On Oct 13, 2015, at 9:07 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:
>
Not Responsive Of course, I have a lot of complaints about myself and this Flint thing. If I had acted more quickly on some of my minister's complaints we at least would have had a more robust discussion. Do we have a copy of the Veolia conclusions somewhere?

VEOLIA

FLINT, MICHIGAN

Water Quality Report

MARCH 28, 2015

Water quality report 1
> Executive Summary 1
> Review of actions taken to date 2
> State report 3
> Veolia's recommendations 4
> Conclusions and next steps 9
> Results expected 11

Water Quality Report
March 12, 2015

FROM
Veolia North America

TO
Emergency Manager Gerald Ambrose

Executive Summary

The City of Flint changed water sources, transitioning from Detroit's system to the Flint River. This change created water treatment challenges that have resulted in water quality violations. Aging cast-iron pipe has compounded the situation, leading to aesthetic issues including taste, odor and discoloration. Public interest and scrutiny of the drinking water system intensified following the distribution of required public notices of violation.

The City of Flint has made a number of good decisions regarding treatment changes that have improved water quality. However, this is a very complex water quality issue and the City is seeking additional advice on what to do to ensure healthful drinking water for the community.

Veolia appreciates the City's decision to seek independent third parties to review current treatment processes, maintenance procedures and actions taken to date, and provide ideas for improvement. We are pleased to present this final report to the City of Flint following our experts' 160-hour assessment of the water treatment plant, distribution system, customer service and communications programs, and capital plans and annual budget.

This report provides recommendations and a roadmap for improvement, though our engagement was limited in scope. Our assessment included reviewing actions taken by the City to date, validating the City's plans going forward, and making recommendations for ideas not being considered.

Although a review of water quality records for the time period under our study indicates compliance with State and Federal water quality regulations, Veolia, as an operator and manager of comparable utilities, recommends a variety of actions to address improvements in water quality and related aesthetics including: operational changes and improvements; changes in water treatment processes, procedures and chemical dosing; adjustments in how current technologies are being used; increased maintenance and capital program activities; increased training; and, an enhanced customer communications program.

We are also providing a recommended schedule and estimated costs for implementing changes. It is our desire to help Flint residents and public officials better understand the current situation so that informed decisions can be made to ensure safe drinking water for the city's customers.

Review of Actions Taken to Date

To address water quality issues, the city has made operational changes, sought help from the State, hired engineering firm Lockwood, Andrews & Newnam, Inc. (LAN) to provide additional advice, and hired Veolia for an assessment from a utility operator's perspective. The City has also reached out to different specialty vendors (chemical suppliers, filter companies and tank aeration companies) for information about products to help with the TTHM issues. These are logical steps to take.

Flint is not alone in dealing with TTHM problems, as many utilities across the country are facing this challenge. The City appears to be following standard steps that many of those communities are taking to successfully correct the problem.

Although the primary focus of this review was based on solving the TTHM problem, the public has also expressed its frustration over discolored and hard water. Those aesthetic issues have understandably increased the level of concern about the safety of the water.

The review of the water quality records during the time of Veolia's study shows the water to be in compliance with State and Federal regulations, and, based on those standards, the water is considered to meet drinking water requirements.

The City has been proactive in its efforts to reach out to the medical community, to set up a phone number and email address to receive complaints, to post State Water Quality reports, to provide the list of EPA required water tests, and offer to test the water at customers' homes.

From our review, these numerous efforts demonstrate how the city is trying to be transparent and responsive beyond what many other communities might do in similar circumstances.

State Report

The Michigan Department of Environmental Quality (MDEQ) has requested specific actions be taken related to the total trihalomethane (TTHM) issues. The February 2015 report from LAN (*Operational Evaluation Report TTHM Formation Concern*) indicated apparent reasons for the elevated levels of TTHM in the distribution system. These generally relate to high Total Organic Carbon (TOC) in the water source, improperly operating equipment both in the plant and the distribution system, less-than-optimal plant TOC removal and old cast-iron pipe in the distribution system. **Our assessment confirms that these reasons are likely given our on-site laboratory testing and analysis, as well as our first-hand observations.**

Due to time constraints, LAN's report to the State was submitted prior to Veolia's final analysis and recommendations, and contained a number of key initial and contingent steps the City should consider, including:

Initial Actions

- Hire a Third Party Water Quality Expert to Complete Independent Audit
- Obtain a THM Analyzer
- Carry Out Jar Testing
- Water Plant Optimization Softening
- Water Plant Optimization Disinfection of Filter Beds (Pre-Chlorination)
- Water Plant Optimization Polymer Aid to Coagulation and Flocculation
- Increase Water Main Flushing
- Water Modeling Cedar Street Pump Recirculation
- Water Modeling West Side Pump Recirculation
- Broken Valve Locations
- Increase Flushing

Contingent Actions

- Fix Ozone System
- Start Feeding Coagulant and Flocculation Polymer
- Convert to Lime and Soda Ash Softening
- Change Disinfection to Chloramine or Chlorine Dioxide Temporarily
- Install Pre-Oxidant at Intake
- Replace Filter Media Implement Advanced Treatment
- Increase Main Flushing
- Continue Valve Replacement
- Emphasize Cast Iron Pipe Replacement

Veolia's Recommendations

While many of Veolia's recommendations match the initial assessment provided by LAN, our approach, as an operator and manager of comparable utilities, considers a more comprehensive solution. These improvements include operational changes, differences in water treatment regimes and chemical dosing, increased maintenance, and increased training.

- **Addition of Permanganate** – The addition of a permanganate chemical will help reduce ozone demand as well as chlorine demand. The reduction of ozone is needed to help eliminate the possibility of violating the bromate limit. The addition of the chemical will require state approval, submission of design documents for approval, procurement of the equipment and installation. The State has indicated they will work with the City on expediting review and approval of any requested changes. The required dosage of permanganate is estimated to range from 0.5 mg/L to 1.2 mg/L with a corresponding price of $160,000 to $320,000 per year. (Please note – The water in the river is dynamic which means it will change with weather, seasons and other factors. The estimates provided are based on bench testing at a given time and as such require the operators to test water and to verify chemical dosages on a frequent basis.)
- **Reduction of Ozone Feed** – Treating water is a delicate balance - increasing ozone to fix the TTHM problem can raise bromate levels to a point of violation. The introduction of permanganate is being recommended to reduce the demand for ozone so that feed rates will not exceed 5 mg/L. The current ozone dosing has been as high as 8 mg/L and, as such, if allowed to continue, will increase the risk of violating the bromate levels.
- **Increase of Ferric Chloride** – Four coagulants were tested by Veolia -ferric chloride, ferric sulfate, polyaluminum chloride (PACl) and aluminum chlorohydrate (ACH). Ferric chloride and ACH were found to be the best choice of product for effectiveness in removing TOC, a precursor to TTHM formation. Current ferric chloride dosages are too low and dosages of 100 mg/L or more are recommended. Again, please note, that the amount of chemical needed changes with the nature of the river and as such, water must be tested multiple times a day with corresponding changes in chemical dosages. This increase to 100 mg/L is twice what is currently being fed and much higher than what had previously been fed last year. The increase in chemical costs could be up to $1,000,000 per year. This change in dosage (using ferric chloride) can be made immediately without state permit review.
- **Reduction of Lime** – Lime is currently being overfed. A higher dosage of lime does not necessarily mean better treatment. A review of different dosages with jar testing indicates that the current dosage of 280 mg/L can be reduced to 230 mg/L. This represents a potential range of savings of up to $270,000 per year. This change can be made immediately. It should be noted that the current softening equipment is in poor condition, which does complicate the treatment process with a poor balance of flow between the two basins, weirs that are not level causing bypassing with the softener basins, and simply old mechanical equipment that periodically breaks down. This equipment is not going to be needed when a change to lake water occurs. Addition of soda ash to help further reduce hardness in cold weather might require dosages up to 40 mg/L with an annual chemical cost up to $320,000. There have also been some questions or complaints from the public regarding hard water. The water entering the plant is currently 360 mg/L and the plant is reducing that level of hardness to about 210 mg/L. Optimization of the dosage can reduce the hardness

further to about 180 mg/L. This reduction however has been sporadic as equipment breakdowns and high flows have caused problems keeping the softening process on-line. As we have noted before, the dosage needs to be adjusted daily or more often based on process control monitoring. The raw water hardness in the summer is much less than in the winter. For illustration purposes, the difference could be 360 mg/L in raw water in winter compared with 220 mg/Lin the summer.

- **Eliminate Pre-Chlorination on the Filters** – The reduction of pre-chlorination on the filters during the summer months can help reduce TTHM formation. This action has to be considered carefully with procedures documented and reviewed for engineering principles. As such, it will take time for the design engineer to determine what could be done to assure the proper chlorine contact time and document that other safety protocols in water are met. This requires state approval. Any submission should be considered along with a possible change in filter media. If Granulated Activated Carbon (GAC) is installed then the pre-chlorination would be stopped or drastically reduced because of the chlorine impact on the GAC filter media. Veolia's initial investigation into changes in chlorine feed point indicate that the recommended action can be accomplished while maintaining the required regulatory contact time for disinfection.
- **Change Filters to Granulated Activated Carbon (GAC)** – The object of the other changes being made is to reduce the TOC before chlorine is added into the process. The plant by design is limited on the amount of TOC removal possible. A maximum removal of only 60% is likely if the plant is properly optimized. The change of filter media to GAC would provide the best reduction possible and provide better than 90% removal dramatically reducing the potential for TTHM formation and thus ensuring compliance with that parameter for the water system. The change in filter media; however, is complicated requiring approval by the state, design of the changes, procurement of the media and a contractor to install it. That will take time and is likely in a range of $1.5 million (more or less) in cost. The use of GAC also requires more testing and monitoring of the media and the TOC than with the current media. GAC will accumulate TOC and begin to become in effective after a period of time. Depending upon the level of TOC reaching the filters this could be as short as 3 months and as long as 9 months. The amount of TOC is dependent upon the river water quality and operation of the other plant processes. Once the ability of the filters to remove TOC is diminished, the GAC media has to be replaced if river water continues as a source. The change to lake water will not require TOC removal and the media could continue to be used as filter media for that new water source.
- **Corrosion Control** – The primary focus of this study was to assure compliance with the TTHM limits. That is not the only problem facing the city and its customers though. Many people are frustrated and naturally concerned by the discoloration of the water with what primarily appears to be iron from the old unlined cast iron pipes. The water system could add a polyphosphate to the water as a way to minimize the amount of discolored water. Polyphosphate addition will not make discolored water issues go away. The system has been experiencing a tremendous number of water line breaks the last two winters. Just last week there were more than 14 in one day. Any break, work on broken valves or hydrant flushing will change the flow of water and potentially cause temporary discoloration.
- **Eliminate a Storage Tank** - The water system has more storage than it requires, due to excess capacity in the water lines in combination with the storage tanks. The City has already employed LAN to update the hydraulic model. The hydraulic model should be used to help determine if water levels can be lowered further and even to remove some storage tanks from service. That decision may need to be made

seasonally. For example demand during water main breaks last week required extensive amounts of water. The excess storage is more a problem with TTHM formation for the system in summer than winter.

- **Prioritize Valve Replacement** - The hydraulic model shows long water age in portions of the system that appear to be contributing to the TTHM problems. LAN has updated the model to include the location of broken valves and that added information is being used to identify other system problems. The City has a contract for valve turning and repair work that should be focused on known broken valves, particularly in sections of the distribution system with old water age. This activity however must wait until warmer weather in fear of causing problems in the water system with lines freezing.
- **Target and Increase Flushing** – Flushing the fire hydrants can be useful in cleaning out lines to minimize discolored water complaints and also helping reduce the age of water. This DOES NOT mean just opening hydrants. The hydraulic model needs to be used to determine which hydrants should be opened and for how long to ensure the lines are properly cleaned. For example, this might require 15 minutes or even several hours of flushing depending on location. The flushing of hydrants also needs to include records of hydrant condition, color of water initially and after periodic increments plus chlorine residual testing. All of that information will help provide information to the engineers on the effectiveness of the procedure. Each crew doing the work should be trained to help explain the process to the public and also warn neighborhoods about flushing so that staining of laundry can be avoided.
- **Change to Lake Water** – The changes being made now to the water plant will not be the same changes required to treat lake water once it becomes available. A thorough analysis and plan needs to be made in preparation of that switch. This is going to need to include changes in how the plant is operated, like eliminating lime softening and reducing the dosages of many chemicals. Consideration will also have to be given to algae treatment when lake water is being used.
- **Operating Programs** – All of the changes discussed above are based on testing and techniques proposed by engineers and skilled operators of both LAN and Veolia. The staff will need further training and implementation of detailed protocols to successfully implement the changes and to ensure long-term success at the plant. This means the City needs to implement a series of programs to ensure success in these changes.
    - **Process Control Management Plan** (PCMP) – The amount of testing and resulting changes in chemical dosages, along with monitoring the impact on the water, will require a well-documented process that all operators follow. An example of this is jar testing, which is used by the operators to identify the most effective chemicals and dosages to optimize treatment. The staff understands the basic treatment process but needs further practice and training to become proficient in the use of routine process control to adjust for water quality. This is commonly referred to as a PCMP and is used as a standard operating procedure so that the operators on the day shift can communicate with the night shift, that operators are following the same treatment plan for water, that the adjustments are unified between different shifts and different people, that a desired water treatment quality is defined and variations from it signal alarms and that the staff knows what to do when the water quality setpoints begin to drift away from its desired quality levels.
    - **Lab QA/QC** – The operation of the water plant is dependent upon accurate lab results. Standard operating procedure needs to be set and lab technicians trained in that process. EPA and the State

set procedures and standards to be met and the staff should strive to meet those standards. The City has already purchased a TTHM analyzer but should also consider a TOC analyzer that can be an online continuous device to provide immediate information on influent and effluent levels of TOC. Part of the lab records should be historical review of data to help operators better understand the changes they make in the plant.

- **Maintenance Management** – The key to water equipment is having all the equipment effectively maintained and functioning properly. The current capital program is fixing many broken pieces of equipment and updating the plant to current standards. This however must be followed with a rigorous maintenance program that ensures the proper preventive maintenance, is able to predict when maintenance is needed to keep equipment functioning properly and responsive to changes in flows and source water quality.
- **Training** – The changes being suggested are new to the staff and as such training needs to be provided in what the changes involve, why they are being made, the impact on the water quality, and how best to run the plant. A good demonstration of skill level is for the staff to become certified by the State as a licensed water plant operator. Many utilities now require all operators to hold at least the minimum certification level as a starting point and offer incentives to increase their certification level.

- **Communication Program** – The city should lay out an immediate, written strategy for communicating with the public in the short-term, as well as a 6-to-12 month strategy that contemplates known, future events like the KWA pipeline and switch to lake water. A wide range of activities are underway to work with the public but a comprehensive and coordinated effort, with a strategic focus, will help the utility and its customers.
  - **Dedicated Communications Personnel** – The City has a single, dedicated public information officer, tasked with providing service to all of city government. The current focus on communications support for Public Works, and the anticipated needs over the next several years, indicate the city would benefit from the hiring of a staff person in Public Works who could establish a communications program designed to provide clear and concise information to a broad audience though a number of different channels. In the interim, the city could hire a communications intern, local communications firm, or somebody with experience who is able to provide reduced or no-cost services for the immediate future.
  - **Communications Planning – Public Notification** – The City should be congratulated on its efforts to keep the public informed. It is posting its monthly reports on the web page to provide transparency, though these reports are highly technical – and may be too technical for the customer base at large. They are valuable to those customers who do want this level of detail. The city should create a single-page dashboard of information that outlines the water utility's performance for the previous month, post the dashboard on the website, print copies for distribution at customer service or other reception areas, and be provided during speaking engagements or other events. This dashboard should be easy to understand, and include:
    - The number of water quality tests conducted the previous month
    - The number of violations reported

- Whether these results are in or out of compliance
- Information about other proactive measures such as main and hydrant replacements, or other programs to improve performance of the water utility
- Benchmarking information so the reader has a greater understanding of how Flint compares with other similar utilities in the region and across the country

- **Public Meetings** –There should be additional, proactive coordination with neighborhood, community and civic groups to provide speakers on timely topics. Given the list of numerous responsibilities, the Public Works director cannot do it alone – the city should identify three or four other staff members, knowledgeable about the water utility who can also speak to various groups, provide information and answer questions. The development of an outreach strategy to target key neighborhood, community and civic groups also will advance the communications effort and the dissemination of information in both the short and long term.
- **Standard tools** – Work crews in the field are often the faces of the utility – the city should create standardized tools for communicating with the public that can be easily and quickly delivered to the community in the event of main breaks, flushing or pre-planned capital improvements. Tools should include:
  - Door hangers for individual distribution
  - Yard signs with simple messaging to be placed near work-sites
  - A simple tri-fold brochure with useful information about the utility and appropriate contact information
  - Specific flyers about a range of topics
  - Infographics about how the water system works, from the intake to the customer's site
- **Change in Billing Format** – The City currently has no real way to reach all customers on a regular basis and provide information. The city should consider changing from a billing postcard to using an envelope and bill stuffer. Monthly or bi-monthly bill inserts are typically used to provide educational material for customers and are standard ways to provide information. Understandably, budget considerations must be taken into account.
- **Use Public Affairs Programming and Opportunities** – The news media has been covering this topic quite extensively – there are other media-related opportunities that may reach a wider audience. Taking advantage of these opportunities will help the city relay information to its customers and the community.
  - Participate in regular editorial-board meetings to provide background information and updates on key milestones or events.
  - Identify a local weekly television program and offer to provide guests to speak about key milestones or upcoming events.

Conclusions and Next Steps

The focus of this report is to help assure TTHM compliance and then improve general water quality. The City had good results in its most recent TTHM tests, although that is to be expected with the changes made to date and the cooler weather which contributes to low TTHM formation. Warm weather will be a different situation both in the nature of the Flint River water quality and in the formation of TTHM. With those changes coming, the City needs to act quickly to make improvements before additional testing takes place this spring and summer. The summary below provides the recommended actions, a priority for their implementation and projected costs either operational or capital. The costs are rough orders of magnitude and will vary with changes in water quality, operational decisions, and engineering choices being made and in some cases require State approval. Although a priority is assigned many of these actions can take place simultaneously.

Priority	Action	Annual Operational Cost	One Time Capital Cost
1	Implement operating programs for process control, lab QA/QC, maintenance, and training. These programs are needed regardless of the TTHM issue and will help with transition to lake water. The City has decided upon a central maintenance software and the water system should be the first to utilize this program since costs are already budgeted. These programs should be initiated immediately.	$ 25,000	$ 250,000 - $ 350,000
2	Contract with your engineer and initiate discussions with the State on the reduction of chlorine prior to the filters and changing the filter media to GAC. This activity has the longest time frame for design and approval, but also is extremely critical to assuring reduced TTHM production. The current filter cleaning and maintenance project needs to be adjusted to take into consideration the change in filter media both to dispose of the anthracite instead of cleaning and to install the GAC. This entire project needs to be done by early July to assure a flow of water throughout the system. Several months are required for the engineering design, State approval, bidding of work and installation of GAC and as such needs to begin now.	$ 0	$1,500,000
	Contract with your engineer and initiate discussions with the State on the addition of 0.5 to 1.2 mg/L of either potassium permanganate (dry) or sodium permanganate (liquid). This will take time to get approved and to implement. The use of liquid tanks at the raw water pump station may be the quickest and least expensive alternative for a temporary measure.	$ 160,000 - $ 320,000	$ 50,000

	Contract with your engineer and initiate discussions with the State on the addition of a corrosion control chemical. This action can be submitted and discussed with the state at the same time as the other chemical and filter changes saving time and effort. A target dosage of 0.5 mg/L phosphate is suggested for improved corrosion control.	$ 50,000	$ 50,000
3	Increase the ferric chloride dosage to 100 mg/L depending on river water TOC levels. (Lower TOC levels can be treated with less ferric chloride.) This change can be made now and is allowed by the State.	$ 1,000,000	$ 0
	Reduce the ozone feed rate to 5 mg/. This change can be done now and does not require State approval.	($50,000 – $100,000	$ 0
	Reduce the lime dosage to minimize hardness levels after softening. This will eliminate magnesium removal during treatment, but will also reduce total hardness. A reduction in carbon dioxide dosing for recarbonation treatment also is expected due to the reduction in lime feed. This change can be made now and does not require State approval.	($270,000)	$ 0
4	Confirm with the engineer when the revised hydraulic model will be completed and if necessary for time to focus on areas of longest water age if that would speed up the effort. Identify impact of reducing tank levels or eliminating a tank seasonally to improve water age. Include with this effort a list of hydrants to flush along with time required to assure drawing fresh water through the system. The engineer has been assigned this task already and confirmation of the timing of a delivery is needed.	$ 0	Already Contracted
	Ask the engineer to identify closed valves on a map that are impacting water age and that can be bid for replacement as soon as weather permits. Have the engineer identify areas of the system where the valve contractor should be focused on finding and fixing closed valves.	$ 0	Already Budgeted
5	Implement the recommendations in the communications program including a person assigned to public works education, using envelopes instead of cards along with bill stuffers for education and provide training for staff. Envelopes and bill stuffers are expensive and might be done periodically and not every month. The cost of TTHM notices, Annual Water Quality Reports and City notices should be figured into if any additional costs would exist. Many of these changes are underway now by the City.	Position Being Budgeted	

Notes

- The costs provided are rough order of magnitude which final engineering will firm up but will fluctuate with final decisions on engineering, operating technique and water quality.
- The change from river to lake water will dramatically cut the chemical costs as less is needed once the change occurs. This means that potassium permanganate will likely not be needed, ferric will drop as much as it went up, ozone levels will be lower and little lime will be needed.

Results Expected

The real question is what changes can be expected from these results in lowering the TTHM, improving the aesthetics and preparing for the change to lake water.

- **TTHM** – The City has already made great strides in reducing the TTHM levels with the changes already made. The additional suggestions by Veolia will further reduce TTHM in the water and help get the city released from the notices being provided to customers.
- **Hardness** – The hardness entering the plant this winter is 360 mg/L with the current system reducing it to 210 mg/L and optimization will reduce to about 180 mg/L. During the summer the levels will be lower probably in the 140 mg/L to 150 mg/L range. The target set by the current best operating practices is 120 mg/L to 150 mg/L.
- **Discolored Water** – The discolored water is caused by the old unlined cast iron pipe. The water from the plant can have an impact on discolored water, but a greater concern is the breaks and construction work that disrupt the flow of water causing discoloration. A polyphosphate is suggested to help bind the old cast iron pipe reducing instances of discolored water. This along with improve flow of water and programmed hydrant flushing will help, BUT WILL NOT eliminate discolored water occurrences.
- **Change to Lake Water** – The recommendations include the suggestion of programs to help the staff better manage the treatment process, additional testing to adjust the plant and additional lab monitoring, a maintenance program focused on keeping equipment properly functioning and more training for staff to improve their skill level. Those actions will prepare the staff for the change of water sources when it comes next year in addition to developing a thorough plan for the switch.

Resourcing the world

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www.veolianorthamerica.com

From: Workman, Wayne (TREASURY)
Sent: Tuesday, October 13, 2015 10:02 AM
To: Muchmore, Dennis (GOV); Saxton, Thomas (Treasury)
Subject: FW: flint documents
Attachments: Flint public works.pdf; Flint water quality.pdf

Here is the Interim report from February also

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Dempkowski, Angela (Treasury)
Sent: Tuesday, October 13, 2015 9:49 AM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Subject: flint documents

Randy asked me to get these to you to give to Dennis Muchmore.

Angela Dempkowski
Senior Executive Management Assistant
Department of Treasury

From: Ducat, Penny (Treasury)
Sent: Tuesday, October 13, 2015 9:43 AM
To: Dempkowski, Angela (Treasury) <DempkowskiA@michigan.gov>
Subject: scan

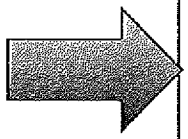
Penny L Ducat
Bureau of Local Government
430 W. Allegan
Lansing, MI 48922
Email: ducatp@michigan.gov
517 33-50443

VEOLIA
City of Flint, MI
City Council Public Works Committee
Interim Water Quality Report

Veolia Scope of Work

Week 1

- Provide a review of current actions
- Engage staff, visit facilities and analyze data
- Make interim report



Week 2

- Carry out more detailed study of initial findings
- Make recommendations for Improving water quality
- Provide a plan, cost and schedule for change

Items of Note

- **Not in scope** – studying why the change from DWSD or the history of the utility
- **What we found** – A very frustrated community and a staff trying to solve the problem, having some success but frustrated with the pace of change

Everybody Is Checking the Safety of Water

- City, state, news media, universities and other groups
- Safe = compliance with state and federal standards and required testing
  - *Latest tests show water is in compliance with drinking water standards*
  - *Monthly report available on web page*
- More than 20,000 tests required annually for city
- Strict testing requirements in place (what and how to test)

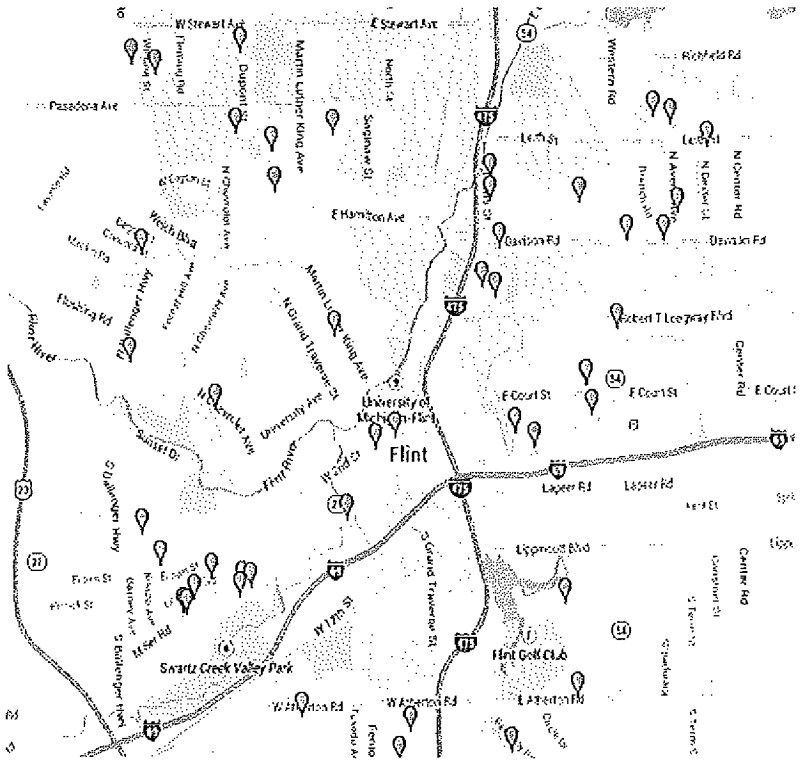
Why TTHM Notices?

- TTHM is formed as a result of the reaction between chlorine and organic material in the water
- City is required to test quarterly at 8 sites
  - *Last summer, several sites had more TTHM than allowed*
- City has reduced levels of TTHM and now all sites are in compliance
  - *Customer notification letters are required until tests are in compliance an average of four quarters*
- It will take at least 2 more quarters to lower average
  - *Even a change to DWSD water doesn't solve problem*
- Flint is not alone – hundreds of communities are facing TTHM issues

Why Discolored Water?

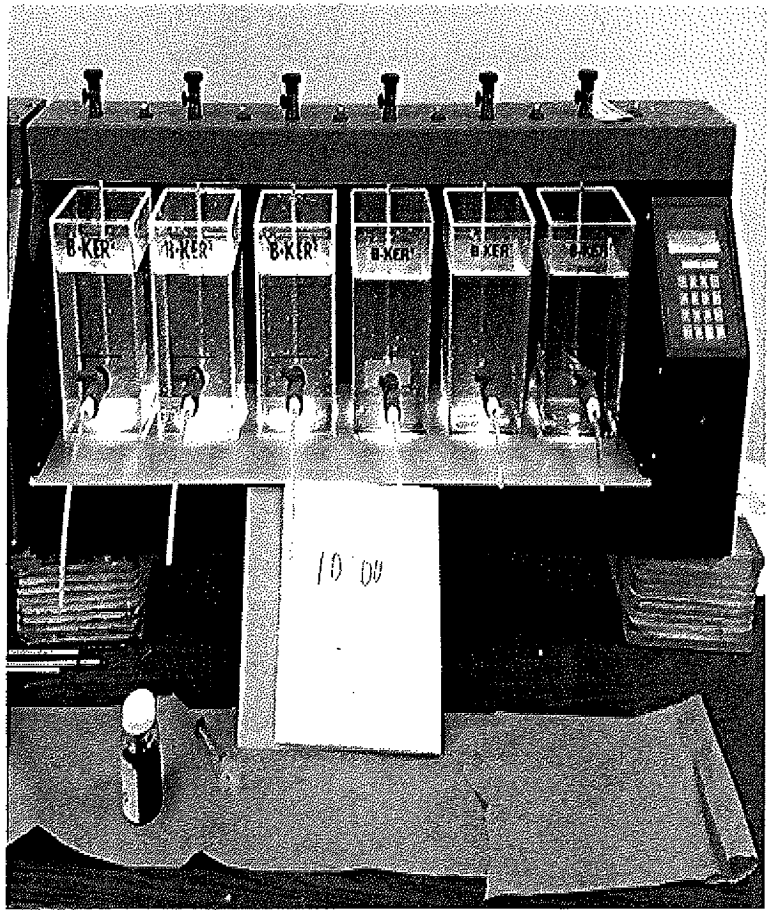
- Old cast iron pipes
- Always has been some discolored water problems – mostly after water breaks
- Efforts to reducing TTHM didn't help discoloration
  - *Doesn't mean the water is unsafe but it is not appealing and raises questions*
- City will test the water at your home – call 787-6537 or email flintwater@cityofflint.com
- Tracking customer complaints is important

Location of water quality complaints
The last 12 months – fewer than you think



Water Quality Can Be Improved

- Adjust the chemicals being fed – stop some, increase some and change some
- Provide better monitoring of water quality to help make adjustments
- Continue repair or replacement of broken parts
- Reduce the over capacity of the distribution system
- Do a better job explaining what is happening
- Do a better job of asking for help



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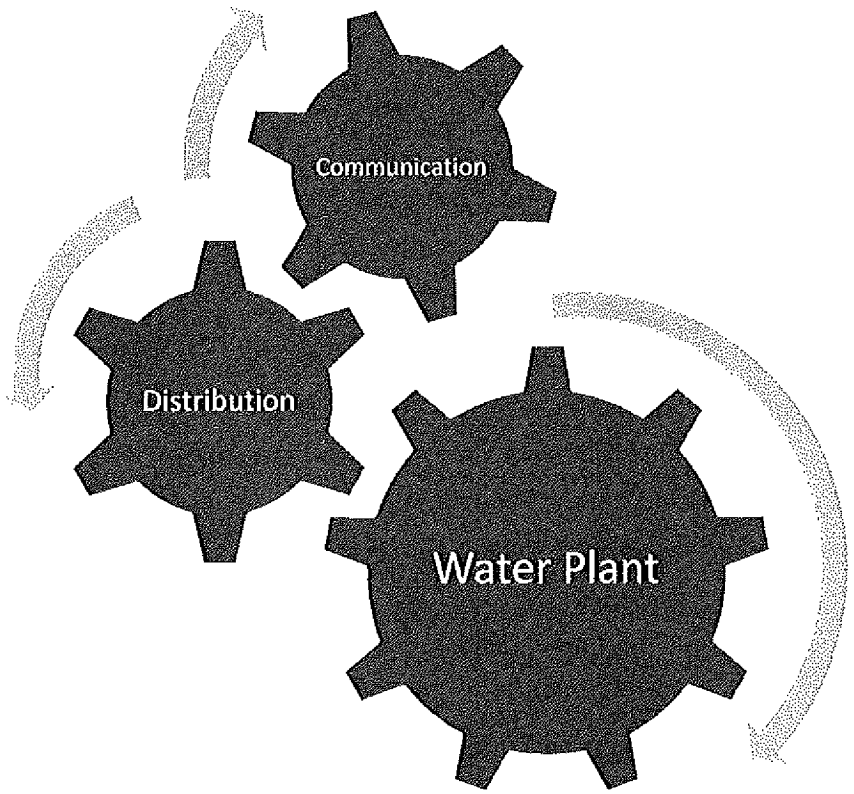
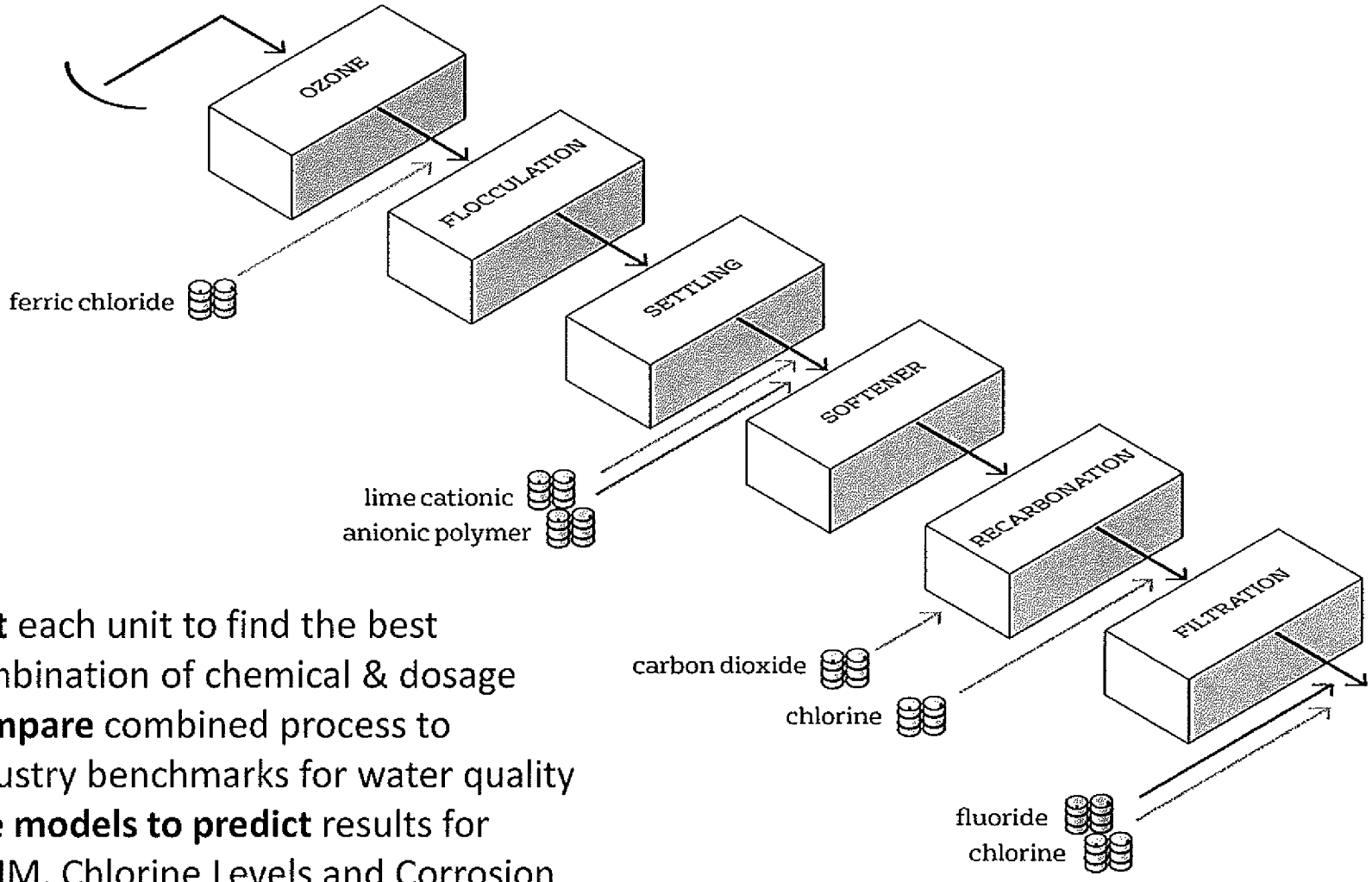
Further Explanation of Solutions

Solution Involves Coordination of 3 Activities



- Water plant improvements
  - *Optimize chemical dosages*
  - *Consider different chemicals*
  - *Change dosing points*
  - *Install granulated activated carbon*
  - *Complete plant upgrades*
  - *Implement best mgt practices*
- Distribution system improvements
  - *Fix broken valves*
  - *Ask for customer feedback*
  - *Reduce tank storage*
  - *Target line flushing*
  - *Run a hydraulic model*
- Better communication with customers
  - *Engage advisory committees*
  - *More accessible utility*
  - *Make it easy to access information*
  - *Better customer communication*

Optimize Plant Processes



- **Test** each unit to find the best combination of chemical & dosage
- **Compare** combined process to industry benchmarks for water quality
- **Use models to predict** results for TTHM, Chlorine Levels and Corrosion

Complete Plant Construction & Re Prioritize Capital

Cost effective plan in budget

- Complete water plant renovation
  - *Target SCADA and instrumentation in plant*
- Speed up valve turning contract & provide money for replacements
- Speed up hydraulic model update to reduce tank volume
- Evaluate installing of granulated activated carbon on filters

Weather can impact timing

Digging up a water valve for repair
Need good weather to start

Implement Best Management Practices

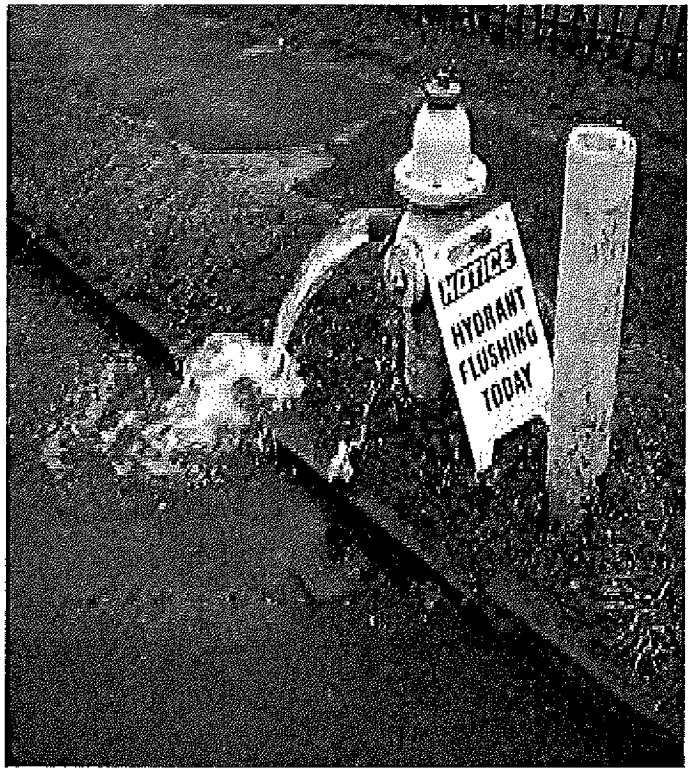
<u>Activities to Help Operators Maintain Good Water Quality</u>

- Process Control Management Plan
- Lab QA/QC Program
- Computerized Maintenance Management System
- Asset Management System
- Training and Certification Program
- Vulnerability Plan

Distribution System Improvements

- Speed up flow of water from plant to homes – 2 weeks plant to house
  - *Find closed valves & open them*
  - *Replace broken valves*
  - *Update hydraulic model*
  - *Reduce system storage*
- Track customer complaints
  - *Test customer water*
  - *Spot flush hydrants to clean areas of stagnant water in the system*

Flushing out discolored water



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Improving Customer Service

Make It Easy to Access Information and People

Develop a proactive customer communication plan

- Create advisory committees to help direct efforts and improve flow of information
- Establish a single point of contact to manage all water quality complaints
- Provide additional customer service training to staff
- Expand neighborhood and community outreach
- Change monthly billing statements from card to envelope with information

Example - Communicate in the field

NOTICE: ANNUAL FLUSHING PROGRAM

We are conducting our annual flushing program to enhance your water quality and clean the distribution system.

DC Water crews will be flushing hydrants in your area 10:00 p.m. to 6:30 a.m. on the following dates:

9/24 **through** 9/30

IMPORTANT INFORMATION

- Your water supply will not be shut off during hydrant flushing.
- You may notice slight water discoloration or low water pressure.
- During this time, customers can continue normal water usage, including drinking, bathing and laundry (unless water is discolored).

If you experience discolored water during this period:

- Run your cold water taps for 15 minutes. If it does not clear up, please contact our Drinking Water Division.
- Do not run your hot water. If you experience discolored water from your hot water tap for several hours, then it is recommended to drain and flush your water heater tank.

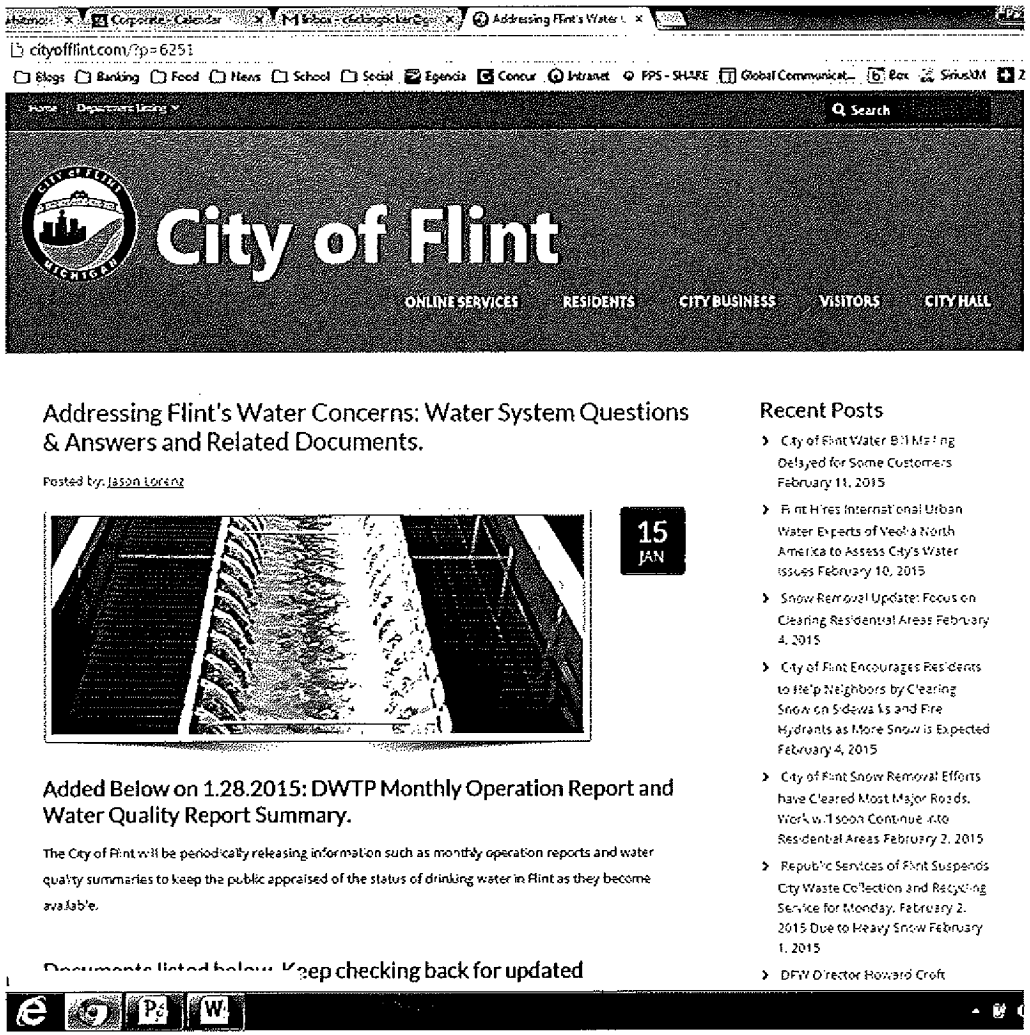
Provide field crews with additional communications tools to use to address questions or concerns from the public

Create door hangers, flyers, or yard signs to notify neighborhoods about main breaks, hydrant flushing, or system maintenance that may affect the public

Create a business card or other contact card with the name and phone number of the single point of contact with the Department of Public Works who is managing information flow

****sample door hanger provided by DC Water & Sewer Authority***

Clear, concise information is key



- **Simplify the reports on the web page dedicated to addressing water system questions**
  - ***Create a single-page, easy to understand report for the public***
  - ***Use charts or provide other examples to demonstrate water quality testing and system or treatment plant improvements underway***
  - ***Provide name, phone number and email address for identified point of contact so customers can request more information***
  - ***Continue to provide Monthly Operation Report and Water Quality Report Summary for those customers interested in more technical information***
  - ***Use site to provide additional notice of field work that may impact customers***

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What Is Next

Next Steps

Week 1

- Provide a review of current actions
- Engage staff, visit facilities and analyze data
- Make interim report

Week 2

- Carry out more detailed study of initial findings
- Make recommendations for Improving water quality
- Provide a plan, cost and schedule for change

Questions Being Heard

REMEMBER

We just started. Might not have an answer yet to your question

- **When will water improve -** The water has improved with current actions. More changes will occur over weeks and months because of safety reviews
- **Date of next update and final report** – An update will be provided next week and a report the following week.
- **Time frame for implementing recommendations –** The City is already started. Others a few days and some weeks or months due to State approval being required or weather.
- **Cost of changes** – Don't know yet but we are aware of the financial concerns

More Questions Being Heard

- **How are TTHM formed –** It's the reaction of chlorine to organics (leafs, dirt) in the water.
- **How to reduce TTHM –** Reduce organics before introducing chlorine and shorten time chlorine has to react with the organics
- **What causes discoloration –** Older lines, the iron parts of the system will leach iron into the water causing the discoloration. Other times its just air built up.
- **Why no discoloration with DWSD –** There was. Flint had a bad time with breaks of old line and is doing lots of construction. This stirred up the water and caused discoloration.

More Questions Being Heard

- **Can you test my water** – The city will test your water for free. But, only 2 of 20 people have taken the city up on the offer since it began offering the service.
- **Medical problems** – Some people may be sensitive to any water. Talk to your doctor. The City is communicating with the medical community.
- **Confidence that future problems will be avoided** – Recommendations will include putting programs in place to better respond to water changes and assure quality

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Questions?

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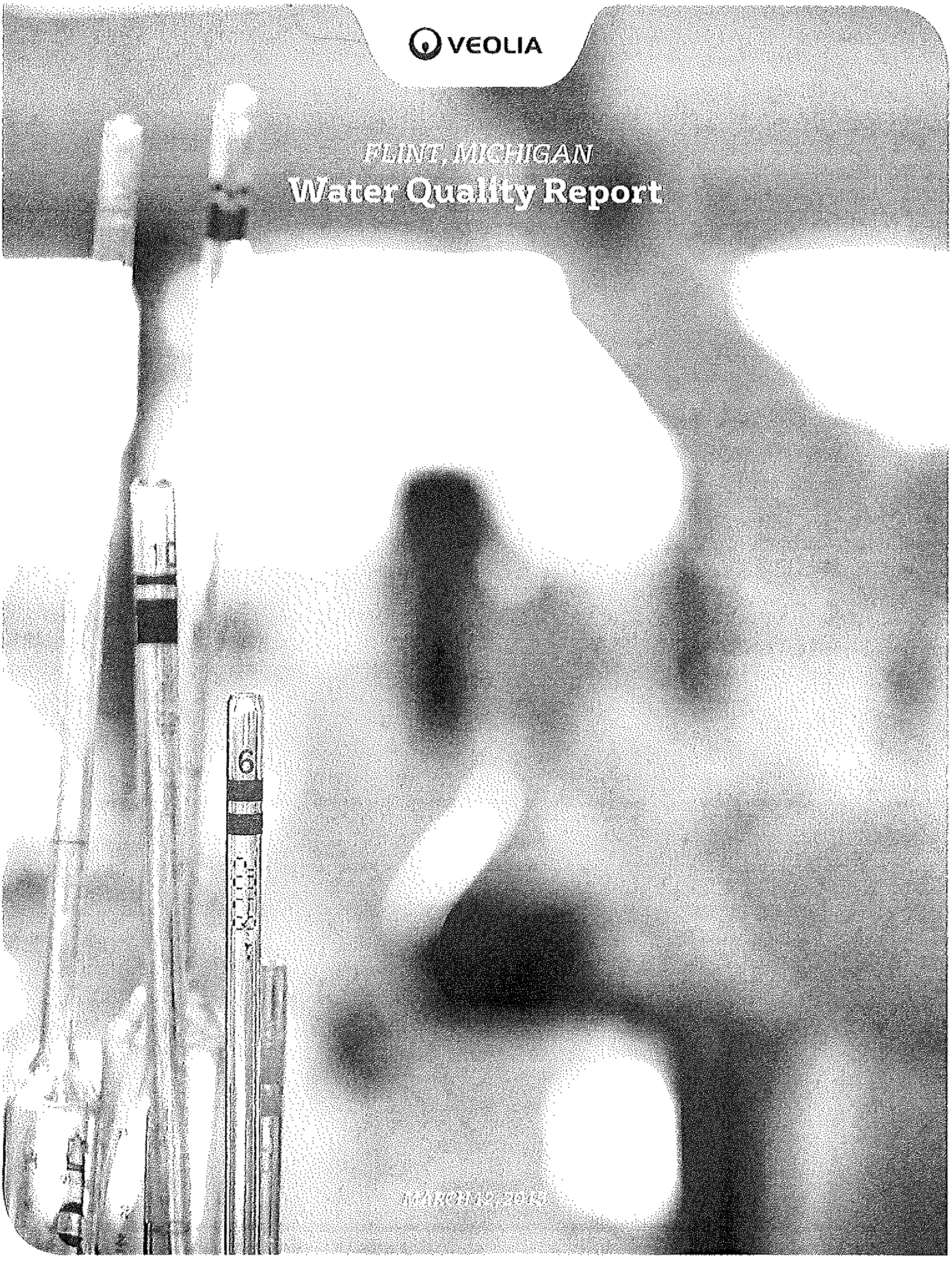
FLINT, MICHIGAN

Water Quality Report



Water quality report 1
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> Conclusions and next steps 9
> Results expected 11

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Water Quality Report
March 12, 2015

FROM
Veolia North America

TO
Emergency Manager Gerald Ambrose

Executive Summary

The City of Flint changed water sources, transitioning from Detroit's system to the Flint River. This change created water treatment challenges that have resulted in water quality violations. Aging cast-iron pipe has compounded the situation, leading to aesthetic issues including taste, odor and discoloration. Public interest and scrutiny of the drinking water system intensified following the distribution of required public notices of violation.

The City of Flint has made a number of good decisions regarding treatment changes that have improved water quality. However, this is a very complex water quality issue and the City is seeking additional advice on what to do to ensure healthful drinking water for the community.

Veolia appreciates the City's decision to seek independent third parties to review current treatment processes, maintenance procedures and actions taken to date, and provide ideas for improvement. We are pleased to present this final report to the City of Flint following our experts' 160-hour assessment of the water treatment plant, distribution system, customer service and communications programs, and capital plans and annual budget.

This report provides recommendations and a roadmap for improvement, though our engagement was limited in scope. Our assessment included reviewing actions taken by the City to date, validating the City's plans going forward, and making recommendations for ideas not being considered.

Although a review of water quality records for the time period under our study indicates compliance with State and Federal water quality regulations, Veolia, as an operator and manager of comparable utilities, recommends a variety of actions to address improvements in water quality and related aesthetics including: operational changes and improvements; changes in water treatment processes, procedures and chemical dosing; adjustments in how current technologies are being used; increased maintenance and capital program activities; increased training; and, an enhanced customer communications program.

We are also providing a recommended schedule and estimated costs for implementing changes. It is our desire to help Flint residents and public officials better understand the current situation so that informed decisions can be made to ensure safe drinking water for the city's customers.

Review of Actions Taken to Date

To address water quality issues, the city has made operational changes, sought help from the State, hired engineering firm Lockwood, Andrews & Newnam, Inc. (LAN) to provide additional advice, and hired Veolia for an assessment from a utility operator's perspective. The City has also reached out to different specialty vendors (chemical suppliers, filter companies and tank aeration companies) for information about products to help with the TTHM issues. These are logical steps to take.

Flint is not alone in dealing with TTHM problems, as many utilities across the country are facing this challenge. The City appears to be following standard steps that many of those communities are taking to successfully correct the problem.

Although the primary focus of this review was based on solving the TTHM problem, the public has also expressed its frustration over discolored and hard water. Those aesthetic issues have understandably increased the level of concern about the safety of the water.

The review of the water quality records during the time of Veolia's study shows the water to be in compliance with State and Federal regulations, and, based on those standards, the water is considered to meet drinking water requirements.

The City has been proactive in its efforts to reach out to the medical community, to set up a phone number and email address to receive complaints, to post State Water Quality reports, to provide the list of EPA required water tests, and offer to test the water at customers' homes.

From our review, these numerous efforts demonstrate how the city is trying to be transparent and responsive beyond what many other communities might do in similar circumstances.

State Report

The Michigan Department of Environmental Quality (MDEQ) has requested specific actions be taken related to the total trihalomethane (TTHM) issues. The February 2015 report from LAN (*Operational Evaluation Report TTHM Formation Concern*) indicated apparent reasons for the elevated levels of TTHM in the distribution system. These generally relate to high Total Organic Carbon (TOC) in the water source, improperly operating equipment both in the plant and the distribution system, less-than-optimal plant TOC removal and old cast-iron pipe in the distribution system. **Our assessment confirms that these reasons are likely given our on-site laboratory testing and analysis, as well as our first-hand observations.**

Due to time constraints, LAN's report to the State was submitted prior to Veolia's final analysis and recommendations, and contained a number of key initial and contingent steps the City should consider, including:

Initial Actions

- Hire a Third Party Water Quality Expert to Complete Independent Audit
- Obtain a THM Analyzer
- Carry Out Jar Testing
- Water Plant Optimization Softening
- Water Plant Optimization Disinfection of Filter Beds (Pre-Chlorination)
- Water Plant Optimization Polymer Aid to Coagulation and Flocculation
- Increase Water Main Flushing
- Water Modeling Cedar Street Pump Recirculation
- Water Modeling West Side Pump Recirculation
- Broken Valve Locations
- Increase Flushing

Contingent Actions

- Fix Ozone System
- Start Feeding Coagulant and Flocculation Polymer
- Convert to Lime and Soda Ash Softening
- Change Disinfection to Chloramine or Chlorine Dioxide Temporarily
- Install Pre-Oxidant at Intake
- Replace Filter Media Implement Advanced Treatment
- Increase Main Flushing
- Continue Valve Replacement
- Emphasize Cast Iron Pipe Replacement

Veolia's Recommendations

While many of Veolia's recommendations match the initial assessment provided by LAN, our approach, as an operator and manager of comparable utilities, considers a more comprehensive solution. These improvements include operational changes, differences in water treatment regimes and chemical dosing, increased maintenance, and increased training.

- **Addition of Permanganate** – The addition of a permanganate chemical will help reduce ozone demand as well as chlorine demand. The reduction of ozone is needed to help eliminate the possibility of violating the bromate limit. The addition of the chemical will require state approval, submission of design documents for approval, procurement of the equipment and installation. The State has indicated they will work with the City on expediting review and approval of any requested changes. The required dosage of permanganate is estimated to range from 0.5 mg/L to 1.2 mg/L with a corresponding price of $160,000 to $320,000 per year. (Please note – The water in the river is dynamic which means it will change with weather, seasons and other factors. The estimates provided are based on bench testing at a given time and as such require the operators to test water and to verify chemical dosages on a frequent basis.)
- **Reduction of Ozone Feed** – Treating water is a delicate balance - increasing ozone to fix the TTHM problem can raise bromate levels to a point of violation. The introduction of permanganate is being recommended to reduce the demand for ozone so that feed rates will not exceed 5 mg/L. The current ozone dosing has been as high as 8 mg/L and, as such, if allowed to continue, will increase the risk of violating the bromate levels.
- **Increase of Ferric Chloride** – Four coagulants were tested by Veolia -ferric chloride, ferric sulfate, polyaluminum chloride (PACl) and aluminum chlorohydrate (ACH). Ferric chloride and ACH were found to be the best choice of product for effectiveness in removing TOC, a precursor to TTHM formation. Current ferric chloride dosages are too low and dosages of 100 mg/L or more are recommended. Again, please note, that the amount of chemical needed changes with the nature of the river and as such, water must be tested multiple times a day with corresponding changes in chemical dosages. This increase to 100 mg/L is twice what is currently being fed and much higher than what had previously been fed last year. The increase in chemical costs could be up to $1,000,000 per year. This change in dosage (using ferric chloride) can be made immediately without state permit review.
- **Reduction of Lime** – Lime is currently being overfed. A higher dosage of lime does not necessarily mean better treatment. A review of different dosages with jar testing indicates that the current dosage of 280 mg/L can be reduced to 230 mg/L. This represents a potential range of savings of up to $270,000 per year. This change can be made immediately. It should be noted that the current softening equipment is in poor condition, which does complicate the treatment process with a poor balance of flow between the two basins, weirs that are not level causing bypassing with the softener basins, and simply old mechanical equipment that periodically breaks down. This equipment is not going to be needed when a change to lake water occurs. Addition of soda ash to help further reduce hardness in cold weather might require dosages up to 40 mg/L with an annual chemical cost up to $320,000. There have also been some questions or complaints from the public regarding hard water. The water entering the plant is currently 360 mg/L and the plant is reducing that level of hardness to about 210 mg/L. Optimization of the dosage can reduce the hardness

further to about 180 mg/L. This reduction however has been sporadic as equipment breakdowns and high flows have caused problems keeping the softening process on-line. As we have noted before, the dosage needs to be adjusted daily or more often based on process control monitoring. The raw water hardness in the summer is much less than in the winter. For illustration purposes, the difference could be 360 mg/L in raw water in winter compared with 220 mg/Lin the summer.

- **Eliminate Pre-Chlorination on the Filters** – The reduction of pre-chlorination on the filters during the summer months can help reduce TTHM formation. This action has to be considered carefully with procedures documented and reviewed for engineering principles. As such, it will take time for the design engineer to determine what could be done to assure the proper chlorine contact time and document that other safety protocols in water are met. This requires state approval. Any submission should be considered along with a possible change in filter media. If Granulated Activated Carbon (GAC) is installed then the pre-chlorination would be stopped or drastically reduced because of the chlorine impact on the GAC filter media. Veolia's initial investigation into changes in chlorine feed point indicate that the recommended action can be accomplished while maintaining the required regulatory contact time for disinfection.
- **Change Filters to Granulated Activated Carbon (GAC)** – The object of the other changes being made is to reduce the TOC before chlorine is added into the process. The plant by design is limited on the amount of TOC removal possible. A maximum removal of only 60% is likely if the plant is properly optimized. The change of filter media to GAC would provide the best reduction possible and provide better than 90% removal dramatically reducing the potential for TTHM formation and thus ensuring compliance with that parameter for the water system. The change in filter media; however, is complicated requiring approval by the state, design of the changes, procurement of the media and a contractor to install it. That will take time and is likely in a range of $1.5 million (more or less) in cost. The use of GAC also requires more testing and monitoring of the media and the TOC than with the current media. GAC will accumulate TOC and begin to become in effective after a period of time. Depending upon the level of TOC reaching the filters this could be as short as 3 months and as long as 9 months. The amount of TOC is dependent upon the river water quality and operation of the other plant processes. Once the ability of the filters to remove TOC is diminished, the GAC media has to be replaced if river water continues as a source. The change to lake water will not require TOC removal and the media could continue to be used as filter media for that new water source.
- **Corrosion Control** – The primary focus of this study was to assure compliance with the TTHM limits. That is not the only problem facing the city and its customers though. Many people are frustrated and naturally concerned by the discoloration of the water with what primarily appears to be iron from the old unlined cast iron pipes. The water system could add a polyphosphate to the water as a way to minimize the amount of discolored water. Polyphosphate addition will not make discolored water issues go away. The system has been experiencing a tremendous number of water line breaks the last two winters. Just last week there were more than 14 in one day. Any break, work on broken valves or hydrant flushing will change the flow of water and potentially cause temporary discoloration.
- **Eliminate a Storage Tank** - The water system has more storage than it requires, due to excess capacity in the water lines in combination with the storage tanks. The City has already employed LAN to update the hydraulic model. The hydraulic model should be used to help determine if water levels can be lowered further and even to remove some storage tanks from service. That decision may need to be made

seasonally. For example demand during water main breaks last week required extensive amounts of water. The excess storage is more a problem with TTHM formation for the system in summer than winter.

- **Prioritize Valve Replacement** - The hydraulic model shows long water age in portions of the system that appear to be contributing to the TTHM problems. LAN has updated the model to include the location of broken valves and that added information is being used to identify other system problems. The City has a contract for valve turning and repair work that should be focused on known broken valves, particularly in sections of the distribution system with old water age. This activity however must wait until warmer weather in fear of causing problems in the water system with lines freezing.
- **Target and Increase Flushing** – Flushing the fire hydrants can be useful in cleaning out lines to minimize discolored water complaints and also helping reduce the age of water. This DOES NOT mean just opening hydrants. The hydraulic model needs to be used to determine which hydrants should be opened and for how long to ensure the lines are properly cleaned. For example, this might require 15 minutes or even several hours of flushing depending on location. The flushing of hydrants also needs to include records of hydrant condition, color of water initially and after periodic increments plus chlorine residual testing. All of that information will help provide information to the engineers on the effectiveness of the procedure. Each crew doing the work should be trained to help explain the process to the public and also warn neighborhoods about flushing so that staining of laundry can be avoided.
- **Change to Lake Water** – The changes being made now to the water plant will not be the same changes required to treat lake water once it becomes available. A thorough analysis and plan needs to be made in preparation of that switch. This is going to need to include changes in how the plant is operated, like eliminating lime softening and reducing the dosages of many chemicals. Consideration will also have to be given to algae treatment when lake water is being used.
- **Operating Programs** – All of the changes discussed above are based on testing and techniques proposed by engineers and skilled operators of both LAN and Veolia. The staff will need further training and implementation of detailed protocols to successfully implement the changes and to ensure long-term success at the plant. This means the City needs to implement a series of programs to ensure success in these changes.
    - **Process Control Management Plan** (PCMP) – The amount of testing and resulting changes in chemical dosages, along with monitoring the impact on the water, will require a well-documented process that all operators follow. An example of this is jar testing, which is used by the operators to identify the most effective chemicals and dosages to optimize treatment. The staff understands the basic treatment process but needs further practice and training to become proficient in the use of routine process control to adjust for water quality. This is commonly referred to as a PCMP and is used as a standard operating procedure so that the operators on the day shift can communicate with the night shift, that operators are following the same treatment plan for water, that the adjustments are unified between different shifts and different people, that a desired water treatment quality is defined and variations from it signal alarms and that the staff knows what to do when the water quality setpoints begin to drift away from its desired quality levels.
    - **Lab QA/QC** – The operation of the water plant is dependent upon accurate lab results. Standard operating procedure needs to be set and lab technicians trained in that process. EPA and the State

set procedures and standards to be met and the staff should strive to meet those standards. The City has already purchased a TTHM analyzer but should also consider a TOC analyzer that can be an online continuous device to provide immediate information on influent and effluent levels of TOC. Part of the lab records should be historical review of data to help operators better understand the changes they make in the plant.

- **Maintenance Management** – The key to water equipment is having all the equipment effectively maintained and functioning properly. The current capital program is fixing many broken pieces of equipment and updating the plant to current standards. This however must be followed with a rigorous maintenance program that ensures the proper preventive maintenance, is able to predict when maintenance is needed to keep equipment functioning properly and responsive to changes in flows and source water quality.
- **Training** – The changes being suggested are new to the staff and as such training needs to be provided in what the changes involve, why they are being made, the impact on the water quality, and how best to run the plant. A good demonstration of skill level is for the staff to become certified by the State as a licensed water plant operator. Many utilities now require all operators to hold at least the minimum certification level as a starting point and offer incentives to increase their certification level.

- **Communication Program** – The city should lay out an immediate, written strategy for communicating with the public in the short-term, as well as a 6-to-12 month strategy that contemplates known, future events like the KWA pipeline and switch to lake water. A wide range of activities are underway to work with the public but a comprehensive and coordinated effort, with a strategic focus, will help the utility and its customers.
  - **Dedicated Communications Personnel** – The City has a single, dedicated public information officer, tasked with providing service to all of city government. The current focus on communications support for Public Works, and the anticipated needs over the next several years, indicate the city would benefit from the hiring of a staff person in Public Works who could establish a communications program designed to provide clear and concise information to a broad audience though a number of different channels. In the interim, the city could hire a communications intern, local communications firm, or somebody with experience who is able to provide reduced or no-cost services for the immediate future.
  - **Communications Planning – Public Notification** – The City should be congratulated on its efforts to keep the public informed. It is posting its monthly reports on the web page to provide transparency, though these reports are highly technical – and may be too technical for the customer base at large. They are valuable to those customers who do want this level of detail. The city should create a single-page dashboard of information that outlines the water utility's performance for the previous month, post the dashboard on the website, print copies for distribution at customer service or other reception areas, and be provided during speaking engagements or other events. This dashboard should be easy to understand, and include:
    - The number of water quality tests conducted the previous month
    - The number of violations reported

  - Whether these results are in or out of compliance
  - Information about other proactive measures such as main and hydrant replacements, or other programs to improve performance of the water utility
  - Benchmarking information so the reader has a greater understanding of how Flint compares with other similar utilities in the region and across the country

- **Public Meetings** –There should be additional, proactive coordination with neighborhood, community and civic groups to provide speakers on timely topics. Given the list of numerous responsibilities, the Public Works director cannot do it alone – the city should identify three or four other staff members, knowledgeable about the water utility who can also speak to various groups, provide information and answer questions. The development of an outreach strategy to target key neighborhood, community and civic groups also will advance the communications effort and the dissemination of information in both the short and long term.
- **Standard tools** – Work crews in the field are often the faces of the utility – the city should create standardized tools for communicating with the public that can be easily and quickly delivered to the community in the event of main breaks, flushing or pre-planned capital improvements. Tools should include:
  - Door hangers for individual distribution
  - Yard signs with simple messaging to be placed near work-sites
  - A simple tri-fold brochure with useful information about the utility and appropriate contact information
  - Specific flyers about a range of topics
  - Infographics about how the water system works, from the intake to the customer's site
- **Change in Billing Format** – The City currently has no real way to reach all customers on a regular basis and provide information. The city should consider changing from a billing postcard to using an envelope and bill stuffer. Monthly or bi-monthly bill inserts are typically used to provide educational material for customers and are standard ways to provide information. Understandably, budget considerations must be taken into account.
- **Use Public Affairs Programming and Opportunities** – The news media has been covering this topic quite extensively – there are other media-related opportunities that may reach a wider audience. Taking advantage of these opportunities will help the city relay information to its customers and the community.
  - Participate in regular editorial-board meetings to provide background information and updates on key milestones or events.
  - Identify a local weekly television program and offer to provide guests to speak about key milestones or upcoming events.

Conclusions and Next Steps

The focus of this report is to help assure TTHM compliance and then improve general water quality. The City had good results in its most recent TTHM tests, although that is to be expected with the changes made to date and the cooler weather which contributes to low TTHM formation. Warm weather will be a different situation both in the nature of the Flint River water quality and in the formation of TTHM. With those changes coming, the City needs to act quickly to make improvements before additional testing takes place this spring and summer. The summary below provides the recommended actions, a priority for their implementation and projected costs either operational or capital. The costs are rough orders of magnitude and will vary with changes in water quality, operational decisions, and engineering choices being made and in some cases require State approval. Although a priority is assigned many of these actions can take place simultaneously.

Priority	Action	Annual Operational Cost	One Time Capital Cost
1	Implement operating programs for process control, lab QA/QC, maintenance, and training. These programs are needed regardless of the TTHM issue and will help with transition to lake water. The City has decided upon a central maintenance software and the water system should be the first to utilize this program since costs are already budgeted. These programs should be initiated immediately.	$ 25,000	$ 250,000 - $ 350,000
2	Contract with your engineer and initiate discussions with the State on the reduction of chlorine prior to the filters and changing the filter media to GAC. This activity has the longest time frame for design and approval, but also is extremely critical to assuring reduced TTHM production. The current filter cleaning and maintenance project needs to be adjusted to take into consideration the change in filter media both to dispose of the anthracite instead of cleaning and to install the GAC. This entire project needs to be done by early July to assure a flow of water throughout the system. Several months are required for the engineering design, State approval, bidding of work and installation of GAC and as such needs to begin now.	$ 0	$1,500,000
	Contract with your engineer and initiate discussions with the State on the addition of 0.5 to 1.2 mg/L of either potassium permanganate (dry) or sodium permanganate (liquid). This will take time to get approved and to implement. The use of liquid tanks at the raw water pump station may be the quickest and least expensive alternative for a temporary measure.	$ 160,000 - $ 320,000	$ 50,000

	Contract with your engineer and initiate discussions with the State on the addition of a corrosion control chemical. This action can be submitted and discussed with the state at the same time as the other chemical and filter changes saving time and effort. A target dosage of 0.5 mg/L phosphate is suggested for improved corrosion control.	$ 50,000	$ 50,000
3	Increase the ferric chloride dosage to 100 mg/L depending on river water TOC levels. (Lower TOC levels can be treated with less ferric chloride.) This change can be made now and is allowed by the State.	$ 1,000,000	$ 0
	Reduce the ozone feed rate to 5 mg/. This change can be done now and does not require State approval.	($50,000 – $100,000	$ 0
	Reduce the lime dosage to minimize hardness levels after softening. This will eliminate magnesium removal during treatment, but will also reduce total hardness. A reduction in carbon dioxide dosing for recarbonation treatment also is expected due to the reduction in lime feed. This change can be made now and does not require State approval.	($270,000)	$ 0
4	Confirm with the engineer when the revised hydraulic model will be completed and if necessary for time to focus on areas of longest water age if that would speed up the effort. Identify impact of reducing tank levels or eliminating a tank seasonally to improve water age. Include with this effort a list of hydrants to flush along with time required to assure drawing fresh water through the system. The engineer has been assigned this task already and confirmation of the timing of a delivery is needed.	$ 0	Already Contracted
	Ask the engineer to identify closed valves on a map that are impacting water age and that can be bid for replacement as soon as weather permits. Have the engineer identify areas of the system where the valve contractor should be focused on finding and fixing closed valves.	$ 0	Already Budgeted
5	Implement the recommendations in the communications program including a person assigned to public works education, using envelopes instead of cards along with bill stuffers for education and provide training for staff. Envelopes and bill stuffers are expensive and might be done periodically and not every month. The cost of TTHM notices, Annual Water Quality Reports and City notices should be figured into if any additional costs would exist. Many of these changes are underway now by the City.	Position Being Budgeted	

Notes

- The costs provided are rough order of magnitude which final engineering will firm up but will fluctuate with final decisions on engineering, operating technique and water quality.
- The change from river to lake water will dramatically cut the chemical costs as less is needed once the change occurs. This means that potassium permanganate will likely not be needed, ferric will drop as much as it went up, ozone levels will be lower and little lime will be needed.

Results Expected

The real question is what changes can be expected from these results in lowering the TTHM, improving the aesthetics and preparing for the change to lake water.

- **TTHM** – The City has already made great strides in reducing the TTHM levels with the changes already made. The additional suggestions by Veolia will further reduce TTHM in the water and help get the city released from the notices being provided to customers.
- **Hardness** – The hardness entering the plant this winter is 360 mg/L with the current system reducing it to 210 mg/L and optimization will reduce to about 180 mg/L. During the summer the levels will be lower probably in the 140 mg/L to 150 mg/L range. The target set by the current best operating practices is 120 mg/L to 150 mg/L.
- **Discolored Water** – The discolored water is caused by the old unlined cast iron pipe. The water from the plant can have an impact on discolored water, but a greater concern is the breaks and construction work that disrupt the flow of water causing discoloration. A polyphosphate is suggested to help bind the old cast iron pipe reducing instances of discolored water. This along with improve flow of water and programmed hydrant flushing will help, BUT WILL NOT eliminate discolored water occurrences.
- **Change to Lake Water** – The recommendations include the suggestion of programs to help the staff better manage the treatment process, additional testing to adjust the plant and additional lab monitoring, a maintenance program focused on keeping equipment properly functioning and more training for staff to improve their skill level. Those actions will prepare the staff for the change of water sources when it comes next year in addition to developing a thorough plan for the switch.

Resourcing the world

From: Wurfel, Brad (DEQ)
Sent: Tuesday, October 13, 2015 11:59 AM
To: Busch, Stephen (DEQ); Shekter Smith, Liane (DEQ); Krisztian, George (DEQ)
Cc: Saxton, Thomas (Treasury); Howard Croft (hcroft@cityofflint.com); Lasher, Geralyn (DHHS); Muchmore, Dennis (GOV)
Subject: FW: flint water

Steve, what's our role here and do we have an update to offer?
Howard, wanted you looped into this request if you've got anything to add.
Tom, heads up Fonger may be headed your way.
Geralyn, same FYI.
b

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Tuesday, October 13, 2015 9:50 AM
To: Wurfel, Brad (DEQ)
Subject: flint water

Hey Brad:
Where is the DEQ at with approving Flint's activation of the sections of Flint and Genesee County transmission pipe?
Howard Croft said yesterday that the city's line is disinfected and ready.
Also, I made a note to expect the corrosion control plan this week. Any word on that?
Thanks,

Ron Fonger
MLive Media Group
Reporter

PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Hollins, Harvey (GOV)
Sent: Tuesday, October 13, 2015 12:08 PM
To: Muchmore, Dennis (GOV)
Subject: Re: What's the latest on Flint?

Just got out of meeting with Goodwill, I will shoot you an update when I get back to my office.

Best,
Harvey

On Oct 13, 2015, at 8:41 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

From: Wurfel, Brad (DEQ)
Sent: Tuesday, October 13, 2015 12:14 PM
To: Muchmore, Dennis (GOV)
Cc: Busch, Stephen (DEQ); Shekter Smith, Liane (DEQ); Krisztian, George (DEQ); Saxton, Thomas (Treasury); Howard Croft (hcroft@cityofflint.com); Lasher, Geralyn (DHHS)
Subject: RE: flint water

Thanks, Chief.
b

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 13, 2015 12:13 PM
To: Wurfel, Brad (DEQ)
Cc: Busch, Stephen (DEQ); Shekter Smith, Liane (DEQ); Krisztian, George (DEQ); Saxton, Thomas (Treasury); Howard Croft (hcroft@cityofflint.com); Lasher, Geralyn (DHHS)
Subject: Re: flint water

Be aware that the GCDC hasn't reached an agreement with GLWA to reconnect their transmission pipes. Lawyers are still talking.

Sent from my iPhone

On Oct 13, 2015, at 11:59 AM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:

> **Steve**, what's our role here and do we have an update to offer?
> **Howard**, wanted you looped into this request if you've got anything to add.
> **Tom**, heads up Fonger may be headed your way.
> **Geralyn**, same FYI.
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>
> ---
>
> **From:** Ronald Fonger [mailto:RFONGER1@mlive.com]
> **Sent:** Tuesday, October 13, 2015 9:50 AM
> **To:** Wurfel, Brad (DEQ)
> **Subject:** flint water
>
> Hey Brad:
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> Also, I made a note to expect the corrosion control plan this week. Any word on that?
> Thanks,
>
> **Ron Fonger**
> MLive Media Group
> Reporter
>
> **PPI**
> email rfonger1@mlive.com
> address 540 S. Saginaw St. #101, Flint MI 48502

From: Hollins, Harvey (GOV)
Sent: Tuesday, October 13, 2015 3:44 PM
To: Muchmore, Dennis (GOV)
Subject: RE: What's the latest on Flint?

Not much more than what's in the news. I made a couple of

- City Council voted to approve their $2 million to use GLWA
- People are still upset, believing that DEQ is covering up their mistake.
- Most elected officials are pointing fingers at the state.
- Bottled water delivery has slowed a tad.
- Various groups are still delivering water filters, a big filter distribution occurred over the weekend.
- Mayor Walling and his challenger Weaver are debating tonight.

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 13, 2015 8:41 AM
To: Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Subject: What's the latest on Flint?

From: Saxton, Thomas (Treasury)
Sent: Wednesday, October 14, 2015 8:12 AM
To: Muchmore, Dennis (GOV)
Subject: RE: What's the latest on Flint?

Sorry I didn't get back to you yesterday… you want the City in general [right?] vs the water system. Anyway we are pulling together some bullets on the former.

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 13, 2015 8:42 AM
To: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>
Subject: What's the latest on Flint?

Tom-
Where do they stand now on shortfalls, budget and costs of transition?

From: Saxton, Thomas (Treasury)
Sent: Wednesday, October 14, 2015 10:40 AM
To: Wyant, Dan (DEQ); Roberts, John (DTMB); Muchmore, Dennis (GOV)
Cc: Workman, Wayne (TREASURY); Baird, Richard (GOV); Khouri, Nick (TREASURY)
Subject: FW: Flint telephone call this morning

I assume we tell them to proceed? I am not aware of the timing on legislative action. The payt to DWSD will ultimately be paid out over time (e.g, say Nov thru June).

From: Byrne, Randall (Treasury)
Sent: Wednesday, October 14, 2015 10:21 AM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>
Cc: Schafer, Suzanne K. (Treasury) <SchaferS7@michigan.gov>
Subject: Flint telephone call this morning

Tom and Wayne:

During our telephone call today, Mayor Walling indicated that they have received the go ahead from the Drain Commissioner and are performing the bacti tests on the eight mile waterline. If all goes well, they may be able to begin to use DWSD water soon. The Mayor wanted to know if they can use DWSD water before the Legislature takes action on the $6M assistance package? Please advise.

Thanks,
Randy

Randall Byrne | State Administrative Manager
Local Government Services - Office of Fiscal Responsibility
State of Michigan | 430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
PPI (517) 373-0633 (fax) | ByrneR1@michigan.gov

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From: Workman, Wayne (TREASURY)
Sent: Wednesday, October 14, 2015 12:16 PM
To: Muchmore, Dennis (GOV); Saxton, Thomas (Treasury)
Cc: Wyant, Dan (DEQ); Roberts, John (DTMB); Baird, Richard (GOV); Khouri, Nick (TREASURY)
Subject: RE: Flint telephone call this morning

We will advise the City to proceed immediately

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Muchmore, Dennis (GOV)
Sent: Wednesday, October 14, 2015 12:10 PM
To: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>
Cc: Wyant, Dan (DEQ) <WyantD@michigan.gov>; Roberts, John (DTMB) <RobertsJ9@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>; Khouri, Nick (TREASURY) <KhouriN@michigan.gov>
Subject: Re: Flint telephone call this morning

Yes, please go ahead. The faster the reconnect occurs the more quickly confidence will be rebuilt.

On Oct 14, 2015, at 10:39 AM, Saxton, Thomas (Treasury) <SaxtonT@michigan.gov> wrote:

> I assume we tell them to proceed? I am not aware of the timing on legislative action. The payt to DWSD will ultimately be paid out over time (e.g, say Nov thru June).
>
> ---
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> **From:** Byrne, Randall (Treasury)
> **Sent:** Wednesday, October 14, 2015 10:21 AM
> **To:** Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>
> **Cc:** Schafer, Suzanne K. (Treasury) <SchaferS7@michigan.gov>
> **Subject:** Flint telephone call this morning
>
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>
> Thanks,
> Randy

Randall Byrne | State Administrative Manager
Local Government Services - Office of Fiscal Responsibility
<image001.jpg> State of Michigan | 430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
(517) 335-2521 | (517) 373-0633 (fax) | ByrneR1@michigan.gov

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From: Hollins, Harvey (GOV)
Sent: Wednesday, October 14, 2015 10:22 PM
To: Muchmore, Dennis (GOV)
Subject: Re: What's the latest on Flint?

Sheldon wants to be pulled in the same way that you pulled Ananich in.

Best,
Harvey

On Oct 14, 2015, at 4:06 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> Have you talked with Sheldon recently?
>
> ---
>
> **From:** Hollins, Harvey (GOV)
> **Sent:** Tuesday, October 13, 2015 3:44 PM
> **To:** Muchmore, Dennis (GOV) <muchmored@michigan.gov>
> **Subject:** RE: What's the latest on Flint?
>
> Not much more than what's in the news. I made a couple of
>
> - City Council voted to approve their $2 million to use GLWA
> - People are still upset, believing that DEQ is covering up their mistake.
> - Most elected officials are pointing fingers at the state.
> - Bottled water delivery has slowed a tad.
> - Various groups are still delivering water filters, a big filter distribution occurred over the weekend.
> - Mayor Walling and his challenger Weaver are debating tonight.
>
> ---
>
> **From:** Muchmore, Dennis (GOV)
> **Sent:** Tuesday, October 13, 2015 8:41 AM
> **To:** Hollins, Harvey (GOV) <hollinsh@michigan.gov>
> **Subject:** What's the latest on Flint?

From: Dayne Walling <dwalling@cityofflint.com>
Sent: Thursday, October 15, 2015 11:02 AM
To: Muchmore, Dennis (GOV); Workman, Wayne (TREASURY)
Cc: Natasha Henderson
Subject: Contract for Water

Gentlemen, I have asked City Administrator Natasha Henderson to reach out to you at Treasury Wayne about the contract for Detoit water. The Mott Foundation has questions about payments and ensuring all parties are contributing to the monthly costs as well as how an escrow fund would work to ensure funds are solely for this purpose. Time is of the essence as you know and the City is prepared to do all things necessary for the water to begin flowing as quickly as possible as we have agreed. Thanks for your tremendous efforts on this and we look forward to finalizing the agreements hopefully today or tomorrow.

--

Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
PPI
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

From: postmaster@senate.michigan.gov
To: 'senatorjananich@senate.michigan.gov'
Sent: Thursday, October 15, 2015 11:29 AM
Subject: Undeliverable: FW: PRESS RELEASE: RTAB Approves Resolution for the Use of $2 Million in Fund Balance to Reconnect to Detroit Water

Delivery has failed to these recipients or groups:
'senatorjananich@senate.michigan.gov'
This message was rejected by the recipient e-mail system. Please check the recipient's e-mail address and try resending this message, or contact the recipient directly.

Diagnostic information for administrators:
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15:28:51 +0000
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11:28:43 -0400
From: "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
To: "'senatorjananich@senate.michigan.gov'"
<senatorjananich@senate.michigan.gov>, "'Rep. Sheldon Neeley (District 34)'"
<SheldonNeeley@house.mi.gov>
CC: "Andy Leavitt (aleavitt@senate.michigan.gov)"
<aleavitt@senate.michigan.gov>
Subject: FW: PRESS RELEASE: RTAB Approves Resolution for the Use of $2
Million in Fund Balance to Reconnect to Detroit Water
Thread-Topic: PRESS RELEASE: RTAB Approves Resolution for the Use of $2
Million in Fund Balance to Reconnect to Detroit Water
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Date: Thu, 15 Oct 2015 15:28:44 +0000
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From: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Sent: Thursday, October 15, 2015 11:29 AM
Subject: FW: PRESS RELEASE: RTAB Approves Resolution for the Use of $2 Million in Fund Balance to Reconnect to Detroit Water
Attachments: RTAB Approves $2million.pdf

I know you've seen this but I wanted to make sure.

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Wednesday, October 14, 2015 6:19 PM
Subject: PRESS RELEASE: RTAB Approves Resolution for the Use of $2 Million in Fund Balance to Reconnect to Detroit Water

For Immediate Release

RTAB Approves Resolution for the Use of $2 Million in Fund Balance to Reconnect to Detroit Water

Flint, Michigan – October 14, 2015 – The City of Flint's Receivership Transition Advisory Board has today approved a resolution that directs $2 Million in fund balance from the Water and Sewer funds be used to fund Flint's portion of the reconnection to Detroit as the City's water source. The Board voted unanimously to approve the measure which will compliment commitments by Governor Snyder in the amount of $6 million and the Charles Stewart Mott Foundation in the amount of $4 million, respectively, for a total reconnection cost of $12 million.

"Flint is one step closer to switching back to Detroit water with the board's approval," said Mayor Dayne Walling. "Now we need approval from the state treasurer and support from the state legislature and I urge them to act immediately." Approval from the legislature is required to finalize the negotiations with the Great Lakes Water Authority, formerly Detroit Water and Sewerage (DWSD). Once the contract between the Authority, Genesse County and the City are complete, Flint can once again begin receiving treated Lake Huron water from Detroit.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI
jlorenz@cityofflint.com

Dayne Walling
Mayor

Natasha L. Henderson
City Administrator

Jason Lorenz
Public Information Officer
Office: (810) 237-2039
PPI
jlorenz@cityofflint.com

For Immediate Release

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–END–

From: Workman, Wayne (TREASURY)
Sent: Thursday, October 15, 2015 11:31 AM
To: Dayne Walling; Muchmore, Dennis (GOV)
Cc: Natasha Henderson; Sygo, Jim (DEQ); Wyant, Dan (DEQ); Saxton, Thomas (Treasury); Byrne, Randall (Treasury)
Subject: RE: Contract for Water

Mayor, The state appropriation is being made to the DEQ. I have copied Director Wyant and his Chief Deputy Jim Sygo on this. We recommend a conference call with DEQ, Mott and the City to agree on payment procedures. It will be necessary to have a list of expenditure amounts for water and any other equipment, services and supplies that will total up to the $12,000,000 budget. Treasury will participate and help any way, but it is important DEQ , Mott and the City agree on the process. We can participate in a call today or Friday. Wayne

From: Dayne Walling [mailto:dwalling@cityofflint.com]
Sent: Thursday, October 15, 2015 11:02 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Cc: Natasha Henderson <nhenderson@cityofflint.com>
Subject: Contract for Water

Gentlemen, I have asked City Administrator Natasha Henderson to reach out to you at Treasury Wayne about the contract for Detoit water. The Mott Foundation has questions about payments and ensuring all parties are contributing to the monthly costs as well as how an escrow fund would work to ensure funds are solely for this purpose. Time is of the essence as you know and the City is prepared to do all things necessary for the water to begin flowing as quickly as possible as we have agreed. Thanks for your tremendous efforts on this and we look forward to finalizing the agreements hopefully today or tomorrow.

--

Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
PPI
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

From: Workman, Wayne (TREASURY)
Sent: Thursday, October 15, 2015 11:33 AM
To: Muchmore, Dennis (GOV); 'Dayne Walling'
Cc: Natasha Henderson
Subject: RE: Contract for Water

Just sent Mayor Walling an email to get this this started. DEQ is the lead for the State for disbursing funds.

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 15, 2015 11:24 AM
To: 'Dayne Walling' <dwalling@cityofflint.com>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Cc: Natasha Henderson <nhenderson@cityofflint.com>
Subject: RE: Contract for Water

Thanks Dayne, I'll get with Wayne.

From: Dayne Walling [mailto:dwalling@cityofflint.com]
Sent: Thursday, October 15, 2015 11:02 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Cc: Natasha Henderson <nhenderson@cityofflint.com>
Subject: Contract for Water

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--

Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
PPI
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

From: Workman, Wayne (TREASURY)
Sent: Thursday, October 15, 2015 11:33 AM
To: Muchmore, Dennis (GOV)
Subject: RE: Contract for Water

On it.

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 15, 2015 11:25 AM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Subject: FW: Contract for Water

Are you handling all this?

From: Dayne Walling [mailto:dwalling@cityofflint.com]
Sent: Thursday, October 15, 2015 11:02 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Cc: Natasha Henderson <nhenderson@cityofflint.com>
Subject: Contract for Water

Gentlemen, I have asked City Administrator Natasha Henderson to reach out to you at Treasury Wayne about the contract for Detoit water. The Mott Foundation has questions about payments and ensuring all parties are contributing to the monthly costs as well as how an escrow fund would work to ensure funds are solely for this purpose. Time is of the essence as you know and the City is prepared to do all things necessary for the water to begin flowing as quickly as possible as we have agreed. Thanks for your tremendous efforts on this and we look forward to finalizing the agreements hopefully today or tomorrow.

--

Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
PPI
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

From: Dayne Walling <dwalling@cityofflint.com>
Sent: Thursday, October 15, 2015 2:40 PM
To: Workman, Wayne (TREASURY)
Cc: Muchmore, Dennis (GOV); Natasha Henderson
Subject: Re: Contract for Water

Thank you for the prompt response and the support

On Thu, Oct 15, 2015 at 11:32 AM, Workman, Wayne (TREASURY) <WorkmanW@michigan.gov> wrote:

Just sent Mayor Walling an email to get this this started. DEQ is the lead for the State for disbursing funds.

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 15, 2015 11:24 AM
To: 'Dayne Walling' <dwalling@cityofflint.com>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Cc: Natasha Henderson <nhenderson@cityofflint.com>
Subject: RE: Contract for Water

Thanks Dayne, I'll get with Wayne.

From: Dayne Walling [mailto:dwalling@cityofflint.com]
Sent: Thursday, October 15, 2015 11:02 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Cc: Natasha Henderson <nhenderson@cityofflint.com>
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From: Workman, Wayne (TREASURY)
Sent: Thursday, October 15, 2015 3:10 PM
To: Dayne Walling
Cc: Muchmore, Dennis (GOV); Natasha Henderson
Subject: RE: Contract for Water

We have reached out to DEQ to get a call organized.

From: Dayne Walling [mailto:dwalling@cityofflint.com]
Sent: Thursday, October 15, 2015 2:40 PM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Cc: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Natasha Henderson <nhenderson@cityofflint.com>
Subject: Re: Contract for Water

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Flint, MI 48502
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mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

From: Karen Teeples <PPI
Sent: Thursday, October 15, 2015 3:48 PM
To: Muchmore, Dennis (GOV); Wyant, Dan (DEQ); Workman, Wayne (TREASURY)
Subject: contract between Flint and Genesee County
Attachments: SKM_C554e15101515460.pdf

Drain Commissioner Jeff Wright wanted you to have a copy of the contract signed today.

LICENSE TO TRANSMIT WATER

This License to Transmit Water ("License") entered into on October 14, 2015, (the "License Date" and "Effective Date") is made between the City of Flint, a Home Rule City (the "City"), and the Genesee County Drain Commissioner, as County Agency, a county agency pursuant to the County Public Improvement Act 342 of 1939, as amended, ("GCDC"). The City and GCDC may be referred to individually as a "Party" or collectively as the "Parties."

RECITALS

WHEREAS, the City has requested the Detroit Water and Sewerage Department ("DWSD") to provide the City with potable water; and

WHEREAS, DWSD water distribution system has no physical connection to the City water distribution system; and

WHEREAS, GCDC is currently purchasing potable water from DWSD and GCDC is receiving DWSD water at the water meter GN-01 near Baxter and Potter Roads, located in Genesee County and more fully set forth in Exhibit 1 (hereinafter known as "GCDC/DWSD Connection"); and

WHEREAS, GCDC has a physical connection to the City water distribution system near Center Road and Pierson Road in Genesee Township, Genesee County, Michigan, which is more fully set forth in Exhibit 2 (hereinafter known as "GCDC/City Connection"); and

WHEREAS, GCDC owns nine (9) miles of water transmission pipeline ("Pipeline") that connects the GCDC/DWSD Connection to the GCDC/City Connection; and

WHEREAS, GCDC has the ability to allow Flint to transmit water through the Pipeline from the GCDC/DWSD Connection to the GCDC/City Connection so DWSD may service the City with DWSD treated potable water; and

WHEREAS, this License shall govern the terms and conditions of Flint transmitting water through the Pipeline from the DWSD/GCDC Connection to the GCDC/City Connection; and

WHEREAS, the Parties hereto acknowledge and agree that DWSD may assign its contract to provide potable water to the City to another entity, including, but not limited to, the Great Lakes Water Authority, and, if DWSD assigns its contract to provide water to the City, all reference to DWSD in this License shall be replaced by the party to whom DWSD assigns its contract.

NOW, THEREFORE, THIS LICENSE is hereby made and mutually entered into by the City and GCDC for the mutual consideration stated herein and the Parties agree to the following:

1. **Adoption of Recitals.** All of the matters stated in the Recitals of this License are true and correct and are hereby incorporated into the body of this License as though fully set forth in their entirety herein. However, in cases of conflict, provisions of this License shall prevail over the matters stated in the Recitals.

2. **Contract for Water.** As a condition precedent to this License being effective, the City shall enter into a contract with DWSD for DWSD to supply the City with water and said contract shall require the City to pay DWSD directly for all water consumed by the City and any applicable charges, fees, or other amounts charged by DWSD. The City shall hold GCDC harmless from any and all debts the City incurs from receiving water from DWSD and any and all costs that DWSD may impose on GCDC as a result of the City receiving water from DWSD.

3. **Term.** The Parties hereto understand and acknowledge that GCDC needs the Pipeline to transmit its potable water to its customers once GCDC starts receiving raw water from KWA. The Parties agree and acknowledge that this License shall expire sixty (60) days after the City has received notice from KWA that raw water is available for the City for treatment; however, the City may request GCDC to extend this License until GCDC starts receiving raw water from KWA. The City shall not transmit water through the Pipeline after GCDC begins to transmit its potable water to its customers. The City acknowledges and consents to GCDC terminating any water transmission in the Pipeline for the benefit of the City once GCDC begins to produce and sell its potable water to its customers. The City may terminate this License by providing GCDC with thirty (30) days written notice of termination.

4. **Consideration.** In exchange for GCDC allowing the City to transmit water through the Pipeline, the City shall pay GCDC one dollar ($1.00) per month for the term of this License. The City is allowed to pay the first nine (9) months in a lump sum payment.

5. **Meters and Billing.** The City hereby grants GCDC complete access to and upon verbal request by GCDC complete control of Station 2, including, but not limited to, all meters, valves, structures, and appurtenances until the Karegnondi Water Authority ("KWA") has notified the City that water is available to the City for treatment or GCDC has provided the City with thirty (30) days notice that GCDC no longer requires access to Station 2. GCDC shall have the meter calibrated within fifteen (15) days of the execution of this License and all costs for the calibration shall be the responsibility of the City. The City shall be entitled to all data, meter reads, and other information that is collected by GCDC at Station 2. The City shall be responsible for all utility costs associated with the operation of Station 2. The City shall be responsible for all repairs to the meter and meter pit. GCDC shall notify DWSD of the monthly meter read for Station 2.

6. **Transmission of Water.** GCDC shall use reasonable diligence to allow the City regular and uninterrupted transmission of water through the Pipeline from the GCDC/DWSD Connection to the GCDC/City Connection; however, Flint shall hold harmless and indemnify GCDC for any damages, breach of contract, or otherwise for interruption of service or curtailment of supply for any cause beyond the control of GCDC. These could include, but are not limited to, Acts of God, strikes, lockouts or other industrial disturbances, acts of public enemy, orders of any kind of the Government of the United States or the State, or any civil or military authority, insurrection, riots, epidemics, landslides, lightning, earthquake, fires, hurricanes, storms, floods, washouts, droughts, arrests, restraint of government and people, civil disturbances, explosions, breakage or accidents to machinery, pipelines or canals, partial or failure of the Pipeline or appurtenances. The City shall further hold GCDC harmless from any claim for damages related to continuity of service by third parties, including DWSD, for GCDC's inability to allow the transmission of water due to any cause beyond the control of GCDC.

7. **Water Quality.** The City shall hold GCDC harmless from any water quality related claim for damages by third parties, including DWSD, served by the City, which are asserted against, or are imposed upon or incurred by GCDC and which result from, relate to, or arise out of a claim regarding the treatment of water or the quality of water.

8. **Volume Available.** The City shall hold GCDC harmless in the event that DWSD cannot meet the volume demands of both GCDC and the City. GCDC shall be entitled to receive the quantity of water requested by GCDC and the City shall be entitled to any remaining volume of water. The City shall notify GCDC daily of its anticipated water volume for that day and GCDC shall be responsible for notifying DWSD of the water volume demands for both GCDC and the City.

9. **Pipeline Malfunction.** If the Pipeline shall malfunction for any reason while the City is transmitting water through the Pipeline, GCDC shall notify the City within two (2) hours of verifying the Pipeline malfunction. Thereafter, the malfunction shall be promptly repaired by GCDC and a detailed invoice for one-half (1/2) of the total cost of the repair shall be submitted to the City. The City shall have thirty (30) calendar days to process and authorize the payment for the repair to GCDC. Payment shall be made to GCDC within thirty–two (32) calendar days by either check or wire transfer. Wire transfer instructions are available from the GCDC Chief Financial Officer. The City shall indemnify and hold GCDC harmless for any and all claims from the City or third parties that relate to the City not being able to supply water to its customers due to the malfunction.

10. **Severability.** The Parties hereto specifically agree that in case any one or more of the sections, subsections, provisions, clauses or words of this License or the application of such sections, subsections, provisions, clauses or words to any situation or circumstance should be, or should be held to be, for any reason, invalid or unconstitutional, under the laws or constitutions of the State or the United States of America, or in contravention of any such laws or constitutions, such invalidity, unconstitutionality or contravention shall not affect any other sections, subsections, provisions, clauses or words of this License or the application of such sections, subsections, provisions, clauses or words to any other situation or circumstance, and it is intended that this License shall be severable and shall be construed and applied as if any such invalid or unconstitutional section, subsection, provision, clause or word had not been included herein, and the rights and obligations of the Parties hereto shall be construed and remain in force accordingly.

11. **Governing Law and Venue.** It is specifically agreed among the Parties to this License that Genesee County, State of Michigan is the place of performance of this License. In the event that any legal proceeding is brought to enforce this License or any provision hereof, the same shall be brought in the Genesee County Circuit Court.

12. **Interpretation and Construction.** For purposes of interpretation and construction of this License, both the City and GCDC shall be deemed to have been the drafter of this License and this License shall not be construed against any Party to this License.

13. **Modification.** This License shall not be modified, altered, or amended except through a written amendment signed by the Parties.

14. **No Third Party Beneficiaries.** This License is not intended to confer upon any person or entity, other than the Parties hereto, any rights or remedies of any kind or nature whatsoever.

15. **Notices.** Other than invoices and payments, any notice, communication, request, reply or advice (herein severally and collectively, for convenience, called "Notice") herein provided or permitted to be given, made or accepted by any Party to any other Party must be in writing and may be given or be served by depositing the same in the United States mail postpaid and registered or certified and addressed to the Party to be notified, with return receipt requested, or by delivering the same to an officer of such Party, or by prepaid telegram when appropriate, addressed to the Party to be notified. Notice deposited in the mail in the manner described above shall be conclusively deemed to be effective, unless otherwise stated herein, from and after the expiration of three (3) days after it is so deposited. Notice given in any other manner shall be effective only if and when received by the Party to be notified. For the purposes of notice, the addresses of the Parties shall, until changed as hereinafter provided, be as follows:

To GCDC: **Genesee County Drain Commissioner's Office, Division of Water and Waste Services, G-4610 Beecher Road, Flint, Michigan 48532.**

To the City: **City of Flint, 1101 South Saginaw Street, Flint, Michigan 48502.**

The Parties hereto shall have the right from time to time and at any time to change their respective addresses and each shall have the right to specify as its address any other address by at least fifteen (15) days written notice to the other Party hereto.

IN WITNESS WHEREOF, the Parties hereto acting under authority of their respective governing bodies have caused this License to be duly executed in several counterparts, each of which shall constitute an original, all as of the day and year first above written, which is the License and Effective Date.

GCDC:

By: Jeff Wright
Its: Drain Commissioner

CITY:

By: Natasha Henderson
Its: City Administrator

By: Dayne Walling
Its: Mayor

Attest:

By:

By:

This License was prepared by:
Attorney Kevin Kilby (P68599)
McGraw Morris P.C.
2075 West Big Beaver Road
Suite 750
Troy, Michigan 48084
Phone: (248) 502-4000
Facsimile: (248) 502-4001
Email: kkilby@mcgrawmorris.com

Approved as to form by:

Peter M. Bade (P47346)
Chief Legal Officer
City of Flint
1101 South Saginaw Street, Room 307
Flint Michigan 48502

N:\GCDC\2155-1000 (General)\Contracts and Agreements\DWSD regarding transmission of water\License to Transmit Water between Flint and GCDC Draft Date October 14 2015 Final Execution Copy.doc

Exhibit 1
Location of GCDC/DWSD Connection

Exhibit 2
Location of GCDC/Flint

150875

RESOLUTION NO.: _____

PRESENTED: 10-12-15

ADOPTED: _____

RESOLUTION AUTHORIZING THE CITY ADMINISTRATOR TO TAKE NECESSARY ACTION TO CONVERT TO THE DETROIT WATER SYSTEM

BY THE CITY ADMINISTRATOR:

In order to promote the health, safety and welfare of this community, it is in the best interests of the City of Flint for the Detroit Water and Sewer Department (DWSD) to supply the City with treated water pending completion of the Karegnondi Water Authority; and

In order for DWSD to supply the City with water, it will be necessary to utilize pipe owned by the Genesee County Drain Commission (GCDC); and

The City, DWSD and GCDC are actively negotiating the terms of the necessary agreements to ensure this transition occurs as soon as possible; and

IT IS RESOLVED that the City Administrator is hereby authorized to enter into agreements with DWSD and GCDC for conversion to the Detroit Water System.

APPROVED AS TO FORM:

Peter M. Bade, City Attorney

Jody N. Lundquist, Chief Financial Officer

FOR THE CITY OF FLINT:

Natasha L. Henderson, City Administrator

APPROVED BY CITY COUNCIL:

PRESENTED TO CITY COUNCIL: 10/12/2015

ADOPTED BY CITY COUNCIL: 10/12/2015

From: Hollins, Harvey (GOV)
Sent: Thursday, October 15, 2015 4:36 PM
To: Muchmore, Dennis (GOV)
Subject: Re: What's the latest on Flint?

The ministers did call and said thank you to both you and me.

Best,
Harvey

On Oct 15, 2015, at 10:42 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> I've met with both of them once, and I've talked with Ananich more than once on the phone because he called me. You've talked to him multiple times, and you're the lead. Don't know what he wants since he's getting to talk with you over and over. By the way, did our ministers call you and say "thank you Harvey, we couldn't get anyone else to listen to us and you did"?
>
> ---
>
> **From:** Hollins, Harvey (GOV)
> **Sent:** Wednesday, October 14, 2015 10:22 PM
> **To:** Muchmore, Dennis (GOV) <muchmored@michigan.gov>
> **Subject:** Re: What's the latest on Flint?
>
> Sheldon wants to be pulled in the same way that you pulled Ananich in.
>
> Best,
> Harvey
>
> On Oct 14, 2015, at 4:06 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:
>
> > Have you talked with Sheldon recently?
> >
> > ---
> >
> > **From:** Hollins, Harvey (GOV)
> > **Sent:** Tuesday, October 13, 2015 3:44 PM
> > **To:** Muchmore, Dennis (GOV) <muchmored@michigan.gov>
> > **Subject:** RE: What's the latest on Flint?
> >
> > Not much more than what's in the news. I made a couple of
> >
> > - City Council voted to approve their $2 million to use GLWA
> > - People are still upset, believing that DEQ is covering up their mistake.
> > - Most elected officials are pointing fingers at the state.
> > - Bottled water delivery has slowed a tad.
> > - Various groups are still delivering water filters, a big filter distribution occurred over the weekend.
> > - Mayor Walling and his challenger Weaver are debating tonight.

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 13, 2015 8:41 AM
To: Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Subject: What's the latest on Flint?

From: Hollins, Harvey (GOV)
Sent: Friday, October 16, 2015 6:26 PM
To: Muchmore, Dennis (GOV)
Subject: Flint switches back to Detroit water system

Talk about a guy who loves throwing our guy under a bus.

http://www.abc12.com/news/headlines/Flint-switches-back-to-Detroit-water-system--333311441.html#.ViFue0Y0zMc.mailto

From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Wednesday, October 21, 2015 10:43 AM
To: Muchmore, Dennis (GOV); Wyant, Dan (DEQ)
Subject: 10.21.15-Ananich-Letter-LevinAppointment-FINAL.pdf
Attachments: 10.21.15-Ananich-Letter-LevinAppointment-FINAL.pdf; ATT00001.txt

Good Morning Gentlemen,

Jim has placed a call to Senator Levin asking him if he would be interested in serving in some capacity on the Flint water review but they have not connected. To be fair to the Governor he wanted to make him aware that he would like Senator Levin to have a role in the process.

Thanks,

Andy

SENATE MINORITY LEADER
JIM ANANICH

517.373.0412
senjananich@senate.michigan.gov
senatedems.com/ananich

/jimananich @jimananich

October 21, 2015

State of Michigan
Executive Office of the Governor
P.O. Box 30013
Lansing, MI 48909

Governor Snyder,

You have stated you have plans to formalize an investigation into the Flint water crisis using an outside group of experts. As we have discussed, we should take care to appoint an individual who is highly qualified to investigate.

To that end, I request that you appoint former Senator Carl Levin as chair of any panel you create. As you are surely aware, Sen. Levin served as the chair of the Permanent Subcommittee on Investigations during his tenure in the Senate, in addition to a number of other government oversight subcommittees.

Even now, Sen. Levin is sharing his passion for aggressive government oversight at Wayne State University, where he teaches students how to use investigatory tools to improve public policy, and serves as chair of the new Levin Center. I cannot think of an individual better suited to restoring trust in our state government.

Please strongly consider my suggestion and help us take steps to ensure a thorough and accurate investigation.

Sincerely,

Jim Ananich
Senate Democratic Leader
District 27

cc:
Dan Wyant, MDEQ

From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Wednesday, October 21, 2015 12:13 PM
To: Muchmore, Dennis (GOV)
Subject: Re: 10.21.15-Ananich-Letter-LevinAppointment-FINAL.pdf

Hi Dennis,

Jim spoke with Senator Levin. I think it is worth us talking about. Do you have time to chat today?

On 10/21/15, 10:42 AM, "Andrew Leavitt" <ALeavitt@senate.michigan.gov> wrote:

>Good Morning Gentlemen,
>
>Jim has placed a call to Senator Levin asking him if he would be interested in serving in some capacity on the Flint water review but they have not connected. To be fair to the Governor he wanted to make him aware that he would like Senator Levin to have a role in the process.
>
>Thanks,
>
>Andy
>

From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Wednesday, October 21, 2015 1:08 PM
To: Muchmore, Dennis (GOV)
Subject: Re: 10.21.15-Ananich-Letter-LevinAppointment-FINAL.pdf

Let me know what time works. They should certainly be involved but I think for our community to feel respected and restore trust it will take someone like Senator Levin. He has longstanding relationships with the community and is trusted.

On 10/21/15, 12:50 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

>Hi Andy, sure we can talk more. We thought if we put the pediatrician from Hurley on it would be better optics wise.
>
>> On Oct 21, 2015, at 12:12 PM, Andrew Leavitt <ALeavitt@senate.michigan.gov> wrote:
>>
>> Hi Dennis,
>>
>> Jim spoke with Senator Levin. I think it is worth us talking about. Do you have time to chat today?
>>
>>
>>
>>> On 10/21/15, 10:42 AM, "Andrew Leavitt" <ALeavitt@senate.michigan.gov> wrote:
>>>
>>> Good Morning Gentlemen,
>>>
>>> Jim has placed a call to Senator Levin asking him if he would be interested in serving in some capacity on the Flint water review but they have not connected. To be fair to the Governor he wanted to make him aware that he would like Senator Levin to have a role in the process.
>>>
>>> Thanks,
>>>
>>> Andy
>>>

From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Wednesday, October 21, 2015 1:35 PM
To: Muchmore, Dennis (GOV)
Subject: Re: 10.21.15-Ananich-Letter-LevinAppointment-FINAL.pdf

I think it would be helpful if we talk before you guys go forward.

On 10/21/15, 1:26 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

>They're ready to announce the work group so I'll pitch to add Carl as a recommendation from Jim.
>
>> On Oct 21, 2015, at 1:08 PM, Andrew Leavitt <ALeavitt@senate.michigan.gov> wrote:
>>
>> Let me know what time works. They should certainly be involved but I think for our community to feel respected and restore trust it will take someone like Senator Levin. He has longstanding relationships with the community and is trusted.
>>
>>
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>>>> Jim spoke with Senator Levin. I think it is worth us talking about. Do you have time to chat today?
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>>>>> On 10/21/15, 10:42 AM, "Andrew Leavitt" <ALeavitt@senate.michigan.gov> wrote:
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>>>>> Good Morning Gentlemen,
>>>>>
>>>>> Jim has placed a call to Senator Levin asking him if he would be interested in serving in some capacity on the Flint water review but they have not connected. To be fair to the Governor he wanted to make him aware that he would like Senator Levin to have a role in the process.
>>>>>
>>>>> Thanks,
>>>>>
>>>>> Andy

>>>>>

From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Wednesday, October 21, 2015 3:05 PM
To: Muchmore, Dennis (GOV); Jim Ananich (PPI
Subject: Re: Dr. Reynolds

Dennis you and I both know Carl deserves more respect than to be an ex-officio to this group. He could have done this right.

From: "Muchmore, Dennis (GOV)"
Date: Wednesday, October 21, 2015 at 3:03 PM
To: "Jim Ananich (PPI ", Andrew Leavitt
Subject: Dr. Reynolds

I have recommended Carl be added to the Commission. Since they won't really be a voting body I suggested he be added as an ex-officio member. Here is the rec for the Hurley person.

> Dr. Lawrence Reynolds from Flint to join our After Action team.
> He's been a long time pediatrician in Flint. Well respected in the community.
> He was affiliated with Mott Children Health Center for several years, but is listed as affiliated with Hurley now.
> His background looks excellent.

From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Wednesday, October 21, 2015 3:46 PM
To: Muchmore, Dennis (GOV)
Cc: Jim Ananich (PPI
Subject: Re: Dr. Reynolds

Larry is awesome but he admittedly is not the person to thoroughly review employee policies within a department? How a culture got so bad in the City of Flint and DEQ's water departments that no one thought they should step up and try and stop this. This is as much HR and bureaucracy knowledge as it is lead issues.

I think we see this as two parts.

One being policy, which Sikkema/Kolb et al will do great at.

Two being oversight, ensuring all the bad actors from state and local government are held accountable and that the people of Flint get the answers they are so desperately are searching for.

We believe this group lacks the ability in the latter department. That's why Levin doing something would be tremendous. He seemed generally interested.

On 10/21/15, 3:35 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

>The ex-officio was just an idea from me because the commission had already been impaneled. I'll suggest other alternatives. I actually liked the idea because it would give him some flexibility time wise. Dr. Reynolds is very solid and lives in Flint so I think he's a great choice.
>
>Sent from my iPhone
>
>On Oct 21, 2015, at 3:05 PM, Andrew Leavitt <ALeavitt@senate.michigan.gov<mailto:ALeavitt@senate.michigan.gov>> wrote:
>
>Dennis you and I both know Carl deserves more respect than to be an ex-officio to this group. He could have done this right.
>
>
>
>From: "Muchmore, Dennis (GOV)"
>Date: Wednesday, October 21, 2015 at 3:03 PM
>To: "Jim Ananich PPI)", Andrew Leavitt
>Subject: Dr. Reynolds
>
>I have recommended Carl be added to the Commission. Since they won't really be a voting body I suggested he be added as an ex-officio member. Here is the rec for the Hurley person.
>Dr. Lawrence Reynolds from Flint to join our After Action team.
>He's been a long time pediatrician in Flint. Well respected in the community.
>He was affiliated with Mott Children Health Center for several years, but is listed as affiliated with Hurley now.

>His background looks excellent.
>
>
>

From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Wednesday, October 21, 2015 5:59 PM
To: Muchmore, Dennis (GOV)
Subject: Re: Dr. Reynolds

Thank you, Dennis.

Jim feels strongly that Governor should talk to Carl and have a conversation.

Sent from my iPhone

> On Oct 21, 2015, at 5:46 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:
>
> I made the request as a regular member
>
> Sent from my iPhone
>
>> On Oct 21, 2015, at 3:45 PM, Andrew Leavitt <ALeavitt@senate.michigan.gov> wrote:
>>
>> Larry is awesome but he admittedly is not the person to thoroughly review employee policies within a department? How a culture got so bad in the City of Flint and DEQ's water departments that no one thought they should step up and try and stop this. This is as much HR and bureaucracy knowledge as it is lead issues.
>>
>> I think we see this as two parts.
>>
>> One being policy, which Sikkema/Kolb et al will do great at.
>>
>> Two being oversight, ensuring all the bad actors from state and local government are held accountable and that the people of Flint get the answers they are so desperately are searching for.
>>
>> We believe this group lacks the ability in the latter department. That's why Levin doing something would be tremendous. He seemed generally interested.
>>
>>
>>
>>> On 10/21/15, 3:35 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:
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>>> Date: Wednesday, October 21, 2015 at 3:03 PM
>>> To: "Jim Ananich (PPI)", Andrew Leavitt
>>> Subject: Dr. Reynolds
>>>
>>> I have recommended Carl be added to the Commission. Since they won't really be a voting body I suggested he be added as an ex-officio member. Here is the rec for the Hurley person.
>>> Dr. Lawrence Reynolds from Flint to join our After Action team.
>>> He's been a long time pediatrician in Flint. Well respected in the community.
>>> He was affiliated with Mott Children Health Center for several years, but is listed as affiliated with Hurley now.
>>> His background looks excellent.
>>>
>>>
>>>

From: Workman, Wayne (TREASURY)
Sent: Thursday, October 22, 2015 9:55 AM
To: Muchmore, Dennis (GOV); Saxton, Thomas (Treasury)
Subject: RE: state money for detroit water

I also have a voice mail from Rep Neeley's office to call ASAP. Sure it is the same topic

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 22, 2015 9:48 AM
To: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Subject: FW: state money for detroit water
Importance: High

Natasha Henderson is becoming a liability.

From: Wurfel, Sara (GOV)
Sent: Thursday, October 22, 2015 9:35 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: FW: state money for detroit water
Importance: High

Please see below.

No good deed goes unpunished. This looks like may be next big issue.

I thought GLWA-DWSD was NOT going to require the entire sum all up front?

From: Ronald Fonger [mailto:RFONGER1@mlive.com]
Sent: Thursday, October 22, 2015 9:28 AM
To: Wurfel, Sara (GOV) <WurfelS@michigan.gov>
Subject: state money for detroit water

Sara:
I was at a City Council meeting last night when Flint City Administrator Natasha Henderson said the state has only wired Flint $2 million of the $6 million approved by the state Legislature.
She said the city has been told it will receive an additional $2 million in January and another $2 million in April.

Henderson said she's asked that the money be sent immediately because the city was required to pay Detroit the entire $12 million upfront, before the water was reconnected, and its water and sewer fund balance has dropped significantly as a result.
Several council members also spoke about this, and Council President Josh Freeman called the payment plant "beyond ridiculous" given the city's financial position.
Is there someone who can talk to us about this?
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Rep. Sheldon Neeley (District 34) <SheldonNeeley@house.mi.gov>
Sent: Thursday, October 22, 2015 3:43 PM
To: Khouri, Nick (TREASURY)
Cc: GovernorsOffice; Muchmore, Dennis (GOV); Workman, Wayne (TREASURY); nhenderson@cityofflint.com
Subject: State Portion of Flint Water Reconnection
Attachments: Treasury Letter.pdf

Please see attached letter. Thanks for your cooperation.

Sheldon

34TH DISTRICT
STATE CAPITOL
P.O. BOX 30014
LANSING, MI 48909-7514
PHONE: (517) 373-8808
FAX: (517) 373-5997
E-MAIL: sheldonneeley@house.mi.gov

MICHIGAN HOUSE OF REPRESENTATIVES

SHELDON A. NEELEY

ASSISTANT DEMOCRATIC WHIP

STATE REPRESENTATIVE

COMMITTEES:
HEALTH POLICY
LOCAL GOVERNMENT
TRANSPORTATION AND INFRASTRUCTURE

October 22, 2015

Department of the Treasury
State of Michigan

Dear Treasurer Nick A. Khouri,

I write to you today concerning a serious matter involving the city of Flint and its switch to the Detroit water system.

Flint prepaid an escrow account of $10 million for the switch and the state was obligated to significantly assist in this payment. The Detroit Water Authority required this set-up prior to restoration of the water service to Flint. As a result, the city has expended substantial resources beyond their commitment in order to activate restoration of service.

Furthermore, the Ruth Mott Foundation will not release their supplemental funds because they subscribe to the plan of release for state funds.

I am asking you and the Department of the Treasury to release the remaining agreed upon funds, otherwise the city of Flint will face financial hardships even more disastrous than it has previously seen.

For the Love of the Community,

Sheldon A. Neeley, State Representative
34th District

CC: Governor Rick Snyder
Dennis Muchmore
Wayne Workman
Natasha Henderson

From: Wyant, Dan (DEQ)
Sent: Thursday, October 22, 2015 5:01 PM
To: Muchmore, Dennis (GOV)
Subject: RE: 2015-10-22 Flint Drinking Water Action Plan Update - FOIA EXEMPT AND ATTORNEY-CLIENT PRIVILEGED

I haven't outside of weekly phone calls to the both.

Dan Wyant, Director
Department of Environmental Quality
517-284-6700 (New Number)

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 22, 2015 4:41 PM
To: Wyant, Dan (DEQ); Scott, Allison (GOV); Agen, Jarrod (GOV); Emmitt, Beth (GOV); Bedan, Morgan (GOV)
Cc: Dickinson, Sarah (GOV)
Subject: RE: 2015-10-22 Flint Drinking Water Action Plan Update - FOIA EXEMPT AND ATTORNEY-CLIENT PRIVILEGED

Are we sharing any of this with Ananich and Neely?

From: Wyant, Dan (DEQ)
Sent: Thursday, October 22, 2015 12:39 PM
To: Scott, Allison (GOV) <scotta12@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Emmitt, Beth (GOV) <emmittb@michigan.gov>; Bedan, Morgan (GOV) <BedanM@michigan.gov>
Cc: Wyant, Dan (DEQ) <WyantD@michigan.gov>; Dickinson, Sarah (GOV) <DickinsonS@michigan.gov>
Subject: 2015-10-22 Flint Drinking Water Action Plan Update - FOIA EXEMPT AND ATTORNEY-CLIENT PRIVILEGED

Dear Governor's Office:

Please provide the following to the Governor as a part of his daily briefing packet. If you have any questions, please let us know.

1. Action Steps Updated Document for the week of October 19-23, 2015
2. Flint Drinking Water Action Plan Update

Thank you.

Dan Wyant
Director

Message

From: Workman, Wayne (TREASURY) [/O=MIGOV/OU=EXTERNAL (FYDIBOHF25SPDLT)/CN=RECIPIENTS/CN=91104E2FF72646419E6955D950F6EC8A]
Sent: 10/22/2015 5:29:33 PM
To: Muchmore, Dennis (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Muchmored]
Subject: Fwd: RTAB Financial Reports

Fyi

Sent from my iPhone

Begin forwarded message:
From: "Sygo, Jim (DEQ)" <SygoJ@michigan.gov>
Date: October 22, 2015 at 5:26:56 PM EDT
To: Natasha Henderson <nhenderson@cityofflint.com>, "Saxton, Thomas (Treasury)" <SaxtonT@michigan.gov>
Cc: "Workman, Wayne (TREASURY)" <WorkmanW@michigan.gov>, "Byrne, Randall (Treasury)" <ByrneR1@michigan.gov>
Subject: RE: RTAB Financial Reports

Natasha,
Your proofs were received by Treasury and we have been directed to wire the remaining $4 million tomorrow. I have left a message for Kimberly at the Mott Foundation advising her of the
wire transfer that the state will be making tomorrow. AS we do not control disbursement from Mott, you will need to work directly with them.

From: Natasha Henderson [mailto:nhenderson@cityofflint.com]
Sent: Thursday, October 22, 2015 2:24 PM
To: Saxton, Thomas (Treasury)
Cc: Workman, Wayne (TREASURY); Sygo, Jim (DEQ); Byrne, Randall (Treasury)
Subject: RE: RTAB Financial Reports

Hello Mr. Saxton,

Ms. Lundquist is working on it as we speak, so it should be momentarily.

Thanks,

Natasha L. Henderson, City Administrator
City of Flint, Michigan
@Samsung Galaxy Note 4

On Oct 22, 2015 2:21 PM, "Saxton, Thomas (Treasury)" <SaxtonT@michigan.gov> wrote:

Natasha -- when do think you will have the documentation/support for the payt made to DWSD for the reconnect ? I believe you indicated that would be today yet.

From: Natasha Henderson [mailto:nhenderson@cityofflint.com]
Sent: Thursday, October 22, 2015 2:03 PM
To: Byrne, Randall (Treasury) <ByrneR1@michigan.gov>; Sygo, Jim (DEQ) <SygoJ@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Subject: Fwd: RTAB Financial Reports

Hello All:

Per our conversation, I have attached the financials submitted to the RTAB on October 20, 2015. Also, I will follow-up with a detailed financial spreadsheet of our water/sewer cash flow to date.

Thanks,

Natasha L. Henderson, City Administrator

City of Flint, Michigan

1101 S. Saginaw St.

Flint, MI 48502

Email: nhenderson@cityofflint.com

Phone: (810) 237-2057

www.cityofflint.com

---------- Forwarded message ----------
From: **Jody Lundquist** <jlundquist@cityofflint.com>
Date: Tue, Oct 20, 2015 at 6:06 PM
Subject: RTAB Financial Reports
To: Natasha Henderson <nhenderson@cityofflint.com>
Cc: Dawn Steele <dsteele@cityofflint.com>

Ms. Henderson,

Please find attached the City of Flint RTAB reports for the period ended September 30, 2015. Budget amounts reflect amendments that had been adopted by Council and approved by the RTAB prior to September 30. Per our conversation with Mayor Walling last month, I have added rows illustrating Fund Balance for each fund as required by ordinance.

In your review of the attached report, please let me know if you have any questions or if any additional information is required.

Best regards,

Jody N. Lundquist

Chief Financial Officer

City of Flint

1101 S. Saginaw Street, 2nd Floor

Flint, MI 48502

jlundquist@cityofflint.com

(810) 766-7268 ext. 2301

From: Saxton, Thomas (Treasury)
Sent: Thursday, October 22, 2015 5:30 PM
To: Muchmore, Dennis (GOV)
Subject: RE: Wire Transfer Information

I am not sure how you are reading that?... I see $10mm going to DWSD from Flint.
Just keep in mind we are sending them $4mm. We already sent them $2mm. They were to put in $2mm of their own & $2mm was suppose to come from Mott. And can't say for sure but Mott may have only kicked in $1mm at this point. [but that is between the City & Mott] Sygo was going to call Mott to let them know what we are doing.

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 22, 2015 4:30 PM
To: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>
Subject: RE: Wire Transfer Information

I thought they had upfronted the money to DWSD but this remittance is to DWSD from SoM?

From: Saxton, Thomas (Treasury)
Sent: Thursday, October 22, 2015 3:46 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Khouri, Nick (TREASURY) <KhouriN@michigan.gov>
Cc: Sygo, Jim (DEQ) <SygoJ@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: FW: Wire Transfer Information

Just an update... we are working on the wire transfer to the City 'as we speak'. We also have their supporting info for their payt to DWSD.

From: Natasha Henderson [mailto:nhenderson@cityofflint.com]
Sent: Thursday, October 22, 2015 3:23 PM
To: Byrne, Randall (Treasury) <ByrneR1@michigan.gov>
Subject: Fwd: Wire Transfer Information

Hello Randy,

You were included in this email.

Thanks,

Natasha L. Henderson, City Administrator
City of Flint, Michigan
1101 S. Saginaw St.
Flint, MI 48502
Email: nhenderson@cityofflint.com
Phone: (810) 237-2057
www.cityofflint.com

---------- Forwarded message ----------
From: **Jody Lundquist** <jlundquist@cityofflint.com>
Date: Thu, Oct 22, 2015 at 2:27 PM
Subject: Wire Transfer Information
To: saxtont@michigan.gov, "Sygo, Jim (DEQ)" <sygoj@michigan.gov>, byrner1@michigan.gov
Cc: Natasha Henderson <nhenderson@cityofflint.com>

Good afternoon, Gentlemen.

Please find the City's wire transfer information below.

Bank N
Routing
Acct#:
Accoun
Contact

A copy of the outgoing wire transfer confirmations totaling $10 million is attached. The first wire was sent to DWSD on Friday, October 16, in the amount of $2 million. The remaining balance of $8 million was sent on Monday, October 19, in two separate transactions of $3 and $5 million due to max transfer limitations.

Please let me know if you have any questions or if I may be of any further assistance.

Best regards,

Jody N. Lundquist
Chief Financial Officer
City of Flint
1101 S. Saginaw Street, 2nd Floor
Flint, MI 48502
jlundquist@cityofflint.com
(810) 766-7268 ext. 2301

From: Wyant, Dan (DEQ)
Sent: Friday, October 23, 2015 12:56 PM
To: Muchmore, Dennis (GOV)
Subject: Re: 2015-10-23 Flint Drinking Water Action Plan Update - FOIA EXEMPT AND ATTORNEY-CLIENT PRIVILEGED

We knew this was going to be the tough week. We hope we have turned the corner. Headed in right direction.

Sent from my iPhone

On Oct 23, 2015, at 12:10 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> How are you doing at the end of this week? You ok? I'm worried about you a little.
>
> ---
>
> **From:** Wyant, Dan (DEQ)
> **Sent:** Friday, October 23, 2015 12:07 PM
> **To:** Scott, Allison (GOV) <scotta12@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Emmitt, Beth (GOV) <emmittb@michigan.gov>; Bedan, Morgan (GOV) <BedanM@michigan.gov>
> **Cc:** Wyant, Dan (DEQ) <WyantD@michigan.gov>; Dickinson, Sarah (GOV) <DickinsonS@michigan.gov>; Edgerton, Shelly (LARA) <EdgertonS1@michigan.gov>; Dykema, Linda D. (DHHS) <DykemaL@michigan.gov>
> **Subject:** 2015-10-23 Flint Drinking Water Action Plan Update - FOIA EXEMPT AND ATTORNEY-CLIENT PRIVILEGED
>
> Dear Governor's Office:
>
> Please provide the following to the Governor as a part of his daily briefing packet. If you have any questions, please let us know.
>
> 1. Action Steps Updated Document for the week of October 19-23, 2015
> 2. Flint Drinking Water Action Plan Update
>
> Thank you.
>
> Dan Wyant
> Director
>
> P.S. We are adding Shelly Edgerton, DLARA and Linda Dykema, DHHS as a cc to these daily e-mail communications in the future.

From: Darnell Earley <darnell.earley@detroitk12.org>
Sent: Monday, October 26, 2015 3:25 PM
To: Muchmore, Dennis (GOV)
Subject: Re: Question for you...

Not Responsive

Darnell Earley, ICMA-CM, MPA
Emergency Manager
Detroit Public Schools

From: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Sent: Monday, October 26, 2015 1:50 PM
To: Darnell Earley
Subject: RE: Question for you...

Great to see the Op-Ed, I'm tired of seeing good people getting kicked around without a chance to set the record straight.

Frankly, the everyday Flint citizen has been very poorly served by these folks, and without help the city would have been bankrupt and my guess the problem exacerbated. Every single one of us is very disappointed and disheartened by the lead issue, and no one, especially you and I, thinks lead is acceptable at any level even though the feds recognize that a certain level is to be expected. A regular Flint citizen has every right to be ticked off by the findings, and I certainly don't blame them for being irritated they have this problem, need bottled water and filters, etc., but it's the old pipes that are the problem.

Lead doesn't magically appear or disappear because of the Flint River water, which we all, including you, expressed a lot of reservation about using. But, the river was always the back-up long before EM's and state involvement, and the locals went forward with the same understandings. Frankly, the response to the "dirty" water and the smell obviously precipitated chemical cures which may or may not have facilitated the leaching. Some of the levels will be relieved by the Lake Huron water, but not the essential issue in old cities throughout the country where the only resolution to lead levels is getting rid of old houses with lead issues and old pipes. Quite an undertaking, but without a viable city it could never be tackled.

From: Darnell Earley [mailto:darnell.earley@detroitk12.org]
Sent: Friday, October 23, 2015 2:56 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: Re: Question for you...

Dennis,

Not Responsive

From: Scorsone, Eric <scorsone@anr.msu.edu>
Sent: Tuesday, October 27, 2015 11:18 AM
To: PPI PPI houri, Claire (GOV); Alicia Kitsuse (akitsuse@mott.org); Andy Dillon (adillon@conwaymackenzie.com); Anne Blankenhorn (ABlankenhorn@senate.michigan.gov); A PPI avanderberg@miottawa.org; PPI PPI larkin@flintandgenesee.org; PPI PPI PPI PPI ibitz@michigan.gov; PPI CKINNS@osc.state.ny.us; PPI PPI thiel@crcmich.org; PPI PPI ennis Muchmore PPI (pospiechd@detroitmi.gov); PPI PPI PPI Hollins, Harvey (GOV); Heather Shawa-DeCook (hsd@LBWL.COM); PPI PPI Jacques, Ingrid (IJacques@detroitnews.com); PPI PPI erome Pokorski (jpokorski@waynecounty.com); PPI PPI; kocherp@dor.state.ma.us; Khouri, Nick (TREASURY); Bouffard, Karen [kbouffard@detnews.com]; PPI ouffard, Karen [kbouffard@detnews.com]; PPI karen.pierog@thomsonreuters.com; PPI avid Massaron (MassaronD@detroitmi.gov); PPI Mike Brown (Mike.Brown@primacivitas.org); PPI PPI Derek Melot (melot@micounties.org); PPI Muchmore, Dennis (GOV); ' PPI (maria.amante@debtwire.com); PPI PPI ublisher@lansingcitypulse.com); PPI chafer, Suzanne K. (Treasury); PPI Iris; scurrie@micounties.org; Shavi Sarna/TAS/EYLLP/US PPI Neff, Thomas (Thomas.Neff@dca.nj.gov); Timothy J. Cunningham (timothy.cunningham@dca.nj.gov) (timothy.cunningham@dca.nj.gov); Tim Daman; theresa.singleton@phil.frb.org; ' PPI PPI Workman, Wayne (TREASURY); Wooten, Richard; witter@msu.edu; Wortley, Jay (Treasury); McCauley, Sara (GOV); YJones@saginaw-mi.com; Unice S. Smith (USSmith@ohioauditor.gov); PPI
Subject: New reports on Flint and local government issued by MSU
Attachments: beyond state takeovers.pdf; flint EM years.pdf

Good Morning,

Please find attached some new reports from MSU regarding the Flint EM years (2011-2014) which is a follow-up to our 2011 report on Flint.

Find here the original Flint report:
https://www.cityofflint.com/wp-content/uploads/Reports/MSUE_FlintStudy2011.pdf

The second report documents the role of state government in the fiscal affairs of Local Government. In particular, you will note:

- Page 9, figure 4 that Michigan escalated its local tax limitations more than almost any state except Colorado
- Page 11, figure 5, Michigan is a stick state in regards to local aid
- Page 14, figure 6, MI is ranked as being high cost and high revenue pressure (meaning revenue restrictions) which is the worst of both worlds

Our research points to the fact that Michigan policies are a major part of the cause of local fiscal distress, not the only cause but a major contributing factor. This is the first time we are aware of being able to quantify this conventional wisdom and place it in the fifty state context.

Thank you

Eric

Dr. Eric Scorsone
Associate Professor and Director
Cetner for Local Governance and Finance
Department of Agricultural, Food and Resource Economics and MSU Extension Greening Michigan Institute
College of Agriculture and Natural Resources
Michigan State University
East Lansing, MI 48824-1039
PPI
scorsone@msu.edu

Beyond State Takeovers: Reconsidering the Role of State Government in Local Financial Distress, with Important Lessons for Michigan and its Embattled Cities

MSU Extension White Paper

By:

Joshua Sapotichne, Department of Political Science

Erika Rosebrook, Department of Political Science

Eric A. Scorsone, Department of Agricultural, Food and Resource Economics

Danielle Kaminski, Department of Agricultural, Food and Resource Economics

Mary Doidge, Department of Agricultural, Food and Resource Economics

Traci Taylor, Anderson Economic Group

Financial support for this research was provided by the C.S. Mott Foundation. Sapotichne and Rosebrook received support from the Department of Political Science at Michigan State University. Daniel Casey-Dunn, Madeline Mangan and Sean Fitzpatrick provided valuable assistance with the collection, coding and analysis of data for this research.

(8/31/2015)

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Executive Summary

One provocative pattern to emerge from the Great Recession is that instances of acute local fiscal distress have clustered in certain states and not others. As recently as last year in Michigan, a state appointed Emergency Manager was operating in each of 17 local governments and school districts. A recent California Policy Center report suggests that more than a dozen cities and counties in California – a state that has already experienced three recent, high-profile municipal bankruptcies and a near-bankruptcy in San Jose, the "capital of Silicon Valley" – are on the cusp of defaulting on general obligation bonds

With the generous support of the C.S. Mott Foundation and Michigan State University, we have engaged in a multi-pronged, multi-method research program to assess the crucial but often overlooked role of state governments in shaping the ways in which cities respond to financial difficulties. This report, based on our analysis of a unique, nearly half-century-long dataset of state and local financial and policy information and correspondence with state officials, analysts and legal experts involved in state-local fiscal affairs, elaborates several key findings:

- **Municipal fiscal distress is not simply a *local* problem. State laws and policies provide state governments with extraordinary influence over the ability of cities to balance revenue and expenditure flows.** The common perception that critical taxing and spending decisions are largely within a city government's control tends to conceal this fundamental detail about American state-local fiscal relations.
- **The ways in which state lawmakers act on this influence varies from state to state and over time.** We refer to the complex mix of laws and policies that prescribe the powers, rights and capacities of local lawmakers to respond to their financial conditions as the **state context for local fiscal distress.** Section 1 of this report assesses key elements of this state context for the lower 48 states since 1970.
- **Some states incubate local financial stress by simultaneously driving up spending pressures on their cities while curtailing their capacity to raise critical revenue.** Since the 1970s, the proliferation of state-imposed tax revenue limitations, coupled with recurring cuts to state aid, has fostered a system that limits a city's ability to fund critical services. Some state governments further undermine the fiscal capacity of their cities via state laws and policies that engender steep expenditure-side pressures (e.g., devolving program responsibilities or driving up labor costs). We classify these states as **incubators of fiscal distress.**
- **Michigan incubates financial stress among its local governments.** Michigan's particular mix of stringent limitations on local revenue and its relatively low level of financial assistance to cities, coupled with spending pressures stemming from spiking local service burdens and increased labor costs, creates conditions that drive up the potential for local fiscal distress.
- **Because state governments can foster dramatically different state contexts for local fiscal stress, there is no single model policy for state intervention in distressed cities or for prevention of local fiscal distress.** A policy that does not address a state's unique context is unlikely to help cities escape financial trouble over the long term. State lawmakers must decide which legal and political tradeoffs they are willing to make to support city fiscal health. Michigan lawmakers, for instance, must recognize that the state context contributes to the problem of local fiscal distress. An aggressive intervention policy does little to curtail the consequences of this state-imposed context. Section 2 of this report draws policy lessons from comparable states in an effort to illustrate alternative approaches to state involvement in local fiscal affairs.

This report's practical recommendations are aimed at assisting the C.S. Mott Foundation, state and local officials, and Michigan residents in identifying a more effective policy and legal approach to local fiscal crises. These are not overly startling recommendations, yet they are easy to neglect because policymakers tend to focus more on short-term political gain rather than the histories and unintended consequences of policies that, over time, become increasingly difficult to alter. Some key recommendations:

- **Creating a state agency that coordinates services to local governments and offers technical support and fiscal monitoring.**
- **Raising awareness among citizens and state decision makers that the causes of fiscal distress are not solely at the local level. Though state governments are certainly part of the solution, they can be a big part of the problem as well.**

Introduction

A recent spate of research and media reports suggest that as the fiscal consequences of the Great Recession continue to subside, state and local fiscal conditions are on the upswing. American cities and locales, however, are not yet out of the woods. A recent analysis from the National League of Cities strikes the proper tone of caution when reporting that, though indeed *state* governments have recovered (albeit slowly), "...*local* fiscal health has not yet fully returned to pre-recession levels. ... While tax revenues continue to improve, increases in service costs, long-term infrastructure needs, employee wages, and pension and healthcare obligations, along with decreased levels of state and federal aid, continue to constrain the [local] fiscal outlook" (McFarland and Pagano, 2014, p. 1, emphasis added).

One thought-provoking pattern to emerge from the aftermath of the Great Recession is that the fiscal outlook seems to be particularly bleak among local governments in certain states. The city of Detroit's bankruptcy proceedings may have indicated that Michigan is something of a hotbed for local financial disaster. Yet a far more damning indicator is the prevalence of financial distress among the state's other local governments. As recently as last year, 17 local governments and school districts were operating under the control of a state-appointed emergency financial manager. Recently, Michigan's most populous county, Wayne, was recently designated for financial emergency status as well. Michigan does not stand alone. News from California, a state that has already seen four cities enter the municipal bankruptcy process since 2008, is equally discouraging. The authors of a recent report conducted for the California Policy Center argue that more than a dozen cities and counties in California are statistically far more likely than "a typical U.S. city or county" to enter bankruptcy proceedings or default on general obligation bonds, with several cities – such as Compton, King City, Sutter Creek and Ione – are a whopping 20 to 40 times more likely to experience acute financial crisis (Joffe and Larkedring, 2015).

What is it with local governments in these states? When it comes to urban fiscal problems, there is much blame to go around. Some blame a mixture of national and global economic forces beyond the control of state and local policymakers. Others contend that the cities facing severe budget crises have only themselves to blame. The goal of this report is to refocus attention on the crucial but often overlooked role of state governments in determining the ways in which cities respond to financial difficulties. How and in what specific ways do state governments structure this local response? Is it possible to assess the fiscal value that all states – via their mix of policies, laws and institutions – may add to or take away from local fiscal decision making? Is it truly more challenging to gain and maintain fiscal sustainability in certain states than it is in others? And in light of this consideration of the role that state governments play in structuring local fiscal decision making, in what ways do state governments choose to – or choose not to – internalize their role in the design and administration of their fiscal distress intervention policy? In other words, can we identify policy self-awareness among state governments that place particularly onerous fiscal pressures on their local lawmakers?

To respond to these important questions, we, with the generous support of the C.S. Mott Foundation and Michigan State University, set out on a multi-pronged, multi-method research program at a critical time in which a new era seems to be dawning for state-local fiscal relations. This report summarizes the findings of the first stage of this ongoing project.

Section 1 of this report develops an indicator for the state context for local fiscal distress based on the mix of state laws and policies that directly influence the revenue and spending decisions of local governments. This section uncovers a number of compelling patterns in the state imposition of revenue and spending pressures over the past quarter-century. Chief among these patterns is that, although a number of states have taken measures to severely limit the revenue capacity of their local governments (thus reducing the resources available to maintain critical services) and several states have devolved greater service responsibilities (and higher spending burdens) to their local governments, only a small handful of states simultaneously drive up spending pressures while aggressively curtailing local governments' capacity to raise revenue. Taken independently, state-imposed revenue- and expenditure-side pressures can play a determinative role in local fiscal decision making. Taken together, as in states such as Michigan and California, they incubate local fiscal distress and can serve to foster fundamental budgetary imbalances that more fiscally challenged local communities are ill-equipped to overcome.

In Section 2, we draw on interpersonal communications with key personnel in several states to assess key elements of state policies for intervening in fiscally distressed local governments. We set out to identify similarities in intervention policies – of which Michigan's is the poster child – and to learn how other states approach local fiscal crises differently. From our work with the state officials, we illustrate how state governments can more effectively align policy with the nature of the problems faced by cities in distress, as well as how state-imposed constraints hamper cities' abilities to balance revenues and expenditures over the long-term. In Section 3, we combine the lessons from Sections 1 and 2 to outline recommendations that can assist the C.S. Mott Foundation, state and local officials, and Michigan residents in identifying a more effective approach to local fiscal crises.

Section 1: Assessing How States Set the Context for Local Fiscal Distress: Revenue Squeezes and Expenditure-side Pressures

Two essential powers that local officials enjoy are their authority to raise revenues and their power to allocate those revenues as they see fit via public expenditures. In local media and policy research, city officials are sometimes lauded for what are perceived as exciting local policy outcomes, such as when a city makes a significant move up the "America's Greenest Cities" or "Child Well-being and Health" rankings. More commonly, they are chastised for decisions deemed detrimental to the city's future, such as providing generous benefits to the municipal workforce, slashing essential services, enacting a rigid historical preservation agenda or raising licensing fees. Yet the common perception that critical taxing and spending decisions – and, by extension, the apportionment of blame and credit associated with the outcomes of such decisions – are largely within a city government's control conceals a fundamental detail about American state-local fiscal relations: state laws and policies provide state governments with extraordinary influence over nearly every aspect of city budgeting. From the type and level of financial assistance that state governments deliver to state-imposed controls over local revenues; to the growing practice and use of state mandates, preapproval and preemption; to minimum service standards; to the formal or informal consultations, advice or technical assistance that state governments may (or may not) provide, local governments in America, in the words of influential legal scholars Gerald Frug and David Barron (2008, p. 75), simply "do not have anything like the kind of local fiscal autonomy often attributed to them."

States influence local governments' capacity to balance revenue and expenditure flows in a variety of ways. In this report, we focus on two core dimensions of this state context for local financial distress.[1] The first is the degree to which states participate in adding or reducing local revenue capacity via the policy balance between the buoyancy of state-granted aid and shared revenue, and the severity of state-imposed controls over city tax revenues. Although most states exhibit a relatively balanced policy approach to local revenue capacity, some state governments have responded to local revenue challenges by granting greater access to state intergovernmental aid while mostly suppressing financial controls over local taxes. These are revenue "carrot" states. Another group – revenue "stick" states, of which Michigan is a prime example – have responded to local revenue challenges by ratcheting financial controls while offering thin or uncertain compensatory aid. Simply put, we expect it to be far more challenging to maintain a sustainable fiscal outlook in states that simultaneously suppress own-source revenue capacity and transfer very little aid to municipalities, particularly during national or state economic downturns.

State policies and actions also burden the opposite end of local budgetary processes: decisions over public expenditures. Few, if any, local spending responsibilities exist because cities choose to take them on. The state decides.[2] Spending pressures can be subtler. For instance, local labor costs, which account for a large slice of most cities' budgets, are heavily influenced by state policies and regulations concerning municipal employees' wages and level of retirement and health care benefits.[3] This basic fact should give pause to those who instinctively attribute chronic local fiscal distress to "profligate spending on public employees" (Greenhut, 2012, pp. 1-2) or "spiraling labor and pension costs" (Rozansky, 2012). To borrow again from Frug and Barron's seminal work (2008, p. 199), "Although cities are often criticized for granting overly generous pensions and health care to their employees, sometimes they become supporters of municipal employees' benefits because the state requires them to do so." Our more general argument here is that it is foolish to claim to correctly diagnose the causes of local fiscal distress without careful examination of the spending context in which states place their cities. In this paper, we aim to capture a large slice of this expenditure-side context by assessing state public sector collective bargaining policies (specifically, those covering municipal police, firefighters, teachers and other local employees) and public employee union membership coverage.

1 Formally defined as the complex, multidimensional, legal-policy frameworks that prescribe the powers, rights and capacities of local lawmakers to respond to their financial conditions.

2 Via specific provisions (or the absence of such provisions) regarding local statutory authorization, budgetary constraints or more general interpretations of local governments' home rule authority.

3 For instance, Michigan, even after the adoption of right-to-work legislation in late 2012, mandates binding arbitration for public safety officers in the event that involved parties in a labor contract dispute cannot reach an agreement. Massachusetts pays out benefits to local employees through the State-Boston Retirement System via formulas established by state law. Illinois law does not mandate city or employee benefit or contribution levels, instead favoring local flexibility in the control over pension costs.

The final segment of this section considers how these revenue- and expenditure-side pressures interact within and across all U.S. state governments. As one might expect (or at least hope), these two competing dimensions tend to work against one another. States that are more revenue stick (meaning local tax limitation increases outpace the distribution of state aid) tend not to impose equally exacting expenditure-side pressures, at least in relation to local labor costs. For many states that do drive up labor and service costs via their mixture of policies, these costs are at least partially offset via a more resilient and vibrant aid environment, coupled with limited own-source revenue restrictions. A few states, such as Michigan and California, place strict limits on local own-source revenues while at the same time providing only meager intergovernmental aid and imposing costly labor and service obligations. We contend that these states have structured local fiscal policymaking in a way that effectively incubates local financial distress. These state contexts are the most egregious in hampering the exercise of local fiscal power; yet the nature of the problem for cities may be much worse – state-imposed budgetary imbalances can engender recurring structural deficits and diminished local service capacity, particularly among the states' older, industrial urban areas.

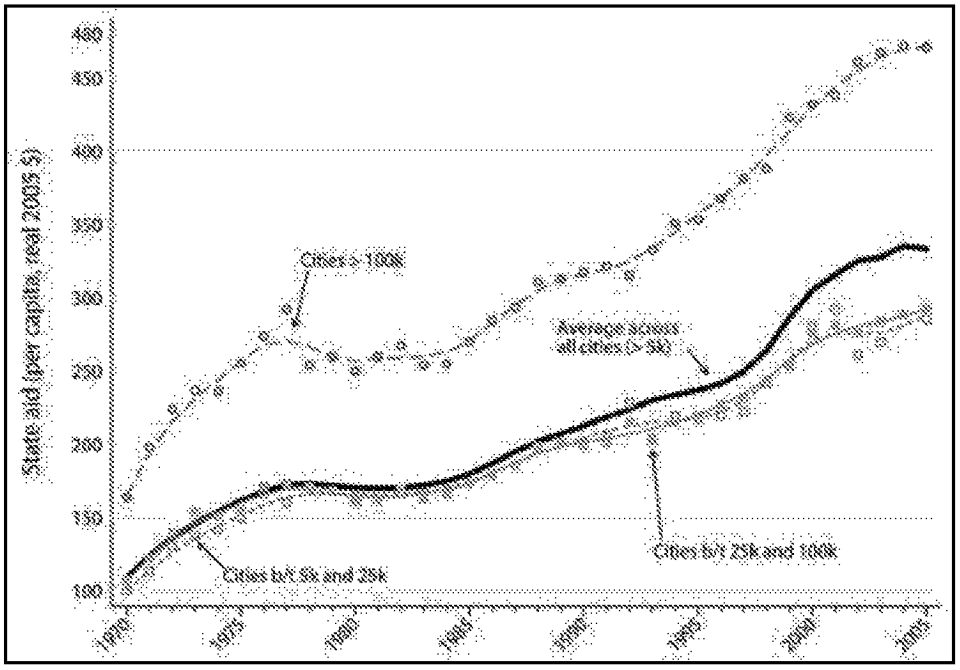
(1) Squeezing Local Revenue Capacity: Thin and Fragile State Aid; Escalating Local Tax Limits

State governments, by virtue of their superior constitutional position, have sweeping legal powers to regulate local finance. Central to our assessment of the state's role in local fiscal distress are state controls over the two dominant sources of city revenue: state aid and local taxes. Local governments occupy a weak position in the American federal system, causing local officials to rely heavily on, in the words of one analyst, "whatever sources of income the states are willing to let them tap into" or "whatever financial assistance" the states are willing to provide (Berman, 2003, p. 89). Sbragia (1983) aptly refers to the condition of American federalism as "the municipal money chase," and in the absence of a vibrant federal aid environment in the United States, state aid – in the form of shared taxes (typically sales, income and gasoline) and restricted or unrestricted grants – continues to be a major source of local government revenue, accounting for roughly a third of local revenue, on average, during the past two decades (Berman, 2003; Urahn et al., 2012).[4]

The importance of a well-designed state aid system is hard to overstate. It allows local officials greater flexibility in responding to economic pressures and the service needs of residents. This flexibility is particularly valuable during periods of economic downturn. Because local governments vary widely in their tax bases and in their ability to raise critical own-source revenues, influential research illustrates the equalizing potential of state aid, particularly in helping to smooth out revenue gaps between wealthier and poorer local jurisdictions (Pelissero, 1984; Stein and Hamm, 1987). In the past few decades, very few states target aid to local governments as a function of local need (Stein and Hamm,

4 Though formulas for the distribution of local aid can vary significantly across states (as well as within states over time), all states provide some form of aid to local governments – often from a historical exchange in which cities would forgo the right to collect certain taxes in exchange for the states returning revenues from those taxes in some form. States typically allocate shared revenue for specific purposes or link it to particular functions of local government. Some shared revenue, however, is unhindered by such state restrictions and can be spent as local lawmakers see fit.

Figure 1. Mapping the Average State Aid Environment Since 1970

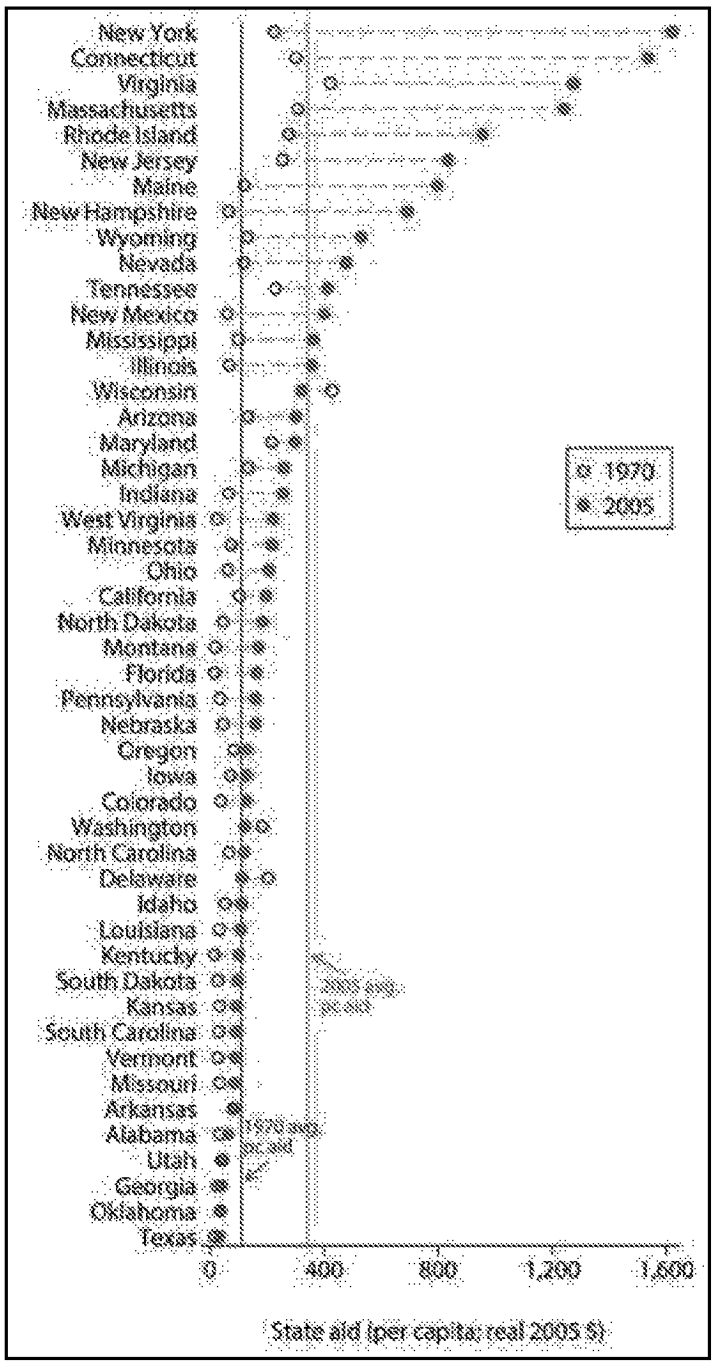


1994). The level of state aid that is available can make it possible for certain jurisdictions – for instance, older, industrial cities experiencing significant job loss coupled with a much reduced tax base – to at least afford minimum levels of services and possibly respond to growing service demands on the heels of a crippling state or national recession (see Ladd and Yinger, 1994).

How then can we characterize the critical state aid portion of the state-controlled revenue environment for American cities? Figure 1, which illustrates trends in per capita state aid to three classes of city governments, shows a steady upward trend in transfers (per capita) received from state governments. Though it is beyond the scope of this project to analyze specific revenue-sharing rules and aid formulas over time and across state contexts, our city financial data allow us to compare important trends in what the Census of Governments classifies as "Total Intergovernmental Revenue from the State Government."[5] In other words, we plot data indicating the fiscal outputs of these rules and decisions. As Figure 1 illustrates, the positive trend over time is particularly strong for cities with populations over 100,000.[6] On average, it would seem that state governments have helped at least larger cities meet increasingly difficult financial conditions through the extension of intergovernmental transfers.

Figure 2, which compares levels and growth of per capita state aid across the contiguous 48 states, paints a bleaker portrait. Consistent with the findings presented in Figure 1, 43 of the 48 states exhibit positive growth rates, meaning that roughly 90 percent of the lower 48 states provided higher levels of aid in the current era than in the early 1970s (mean increase = 256 percent). Figure 1, however, masks the considerable unevenness with which state governments deliver aid. This unevenness is on display in Figure 2, where fewer states provide above average levels of aid, and most states exhibit relatively flat growth in the distribution of state aid.[7]

Figure 2. The Uneven Development of State Aid Environments



5 This includes state grants-in-aid, regardless of basis of distribution; local share of state-collected taxes; payments in lieu of taxes on state property; and reimbursement for services performed for state government (e.g., care of state prisoners in local jails, construction or maintenance of state highway facilities, etc.) (U.S. Bureau of the Census, 2006).

6 In 1970, these cities received roughly $160 per capita (in real 2005 dollars) in state intergovernmental revenue; in 2005, the most recent year in our time series, average per capita aid was $470. Though the growth rate for small and medium-sized cities is not as steep, the steady uptick in average per capita state aid exemplifies a healthier state aid environment than in the past.

7 As is indicated by the maroon-colored vertical line, the average per capita aid provided to local governments in 2005 was just over $340. Texas, Oklahoma, Georgia and Utah provided around $40 per person, on average. New York, Connecticut, Virginia, Massachusetts and Rhode Island, on the other hand, distributed intergovernmental revenue at an annual rate at or around $1,000 per resident.

One key reason for this unevenness is that state aid tends to ebb and flow with changing state-level economic conditions (Berman, 2003, pp. 100-102). More generally, state intergovernmental aid – particularly those discretionary resources distributed via statutory aid policies and unprotected by state constitutions – is inextricably linked to state legislative budget battles. State legislatures and governors, scrambling to balance their own budgets, are simply more likely to risk citizen backlash from significant aid cuts during periods of widespread budget shortfalls. What is more, state lawmakers across the country seem to be looking with decreasing favorability on the idea of, in the derisive words of one Wisconsin legislator, "being an ATM machine for local governments" (Rinard, 1999, p. 1).

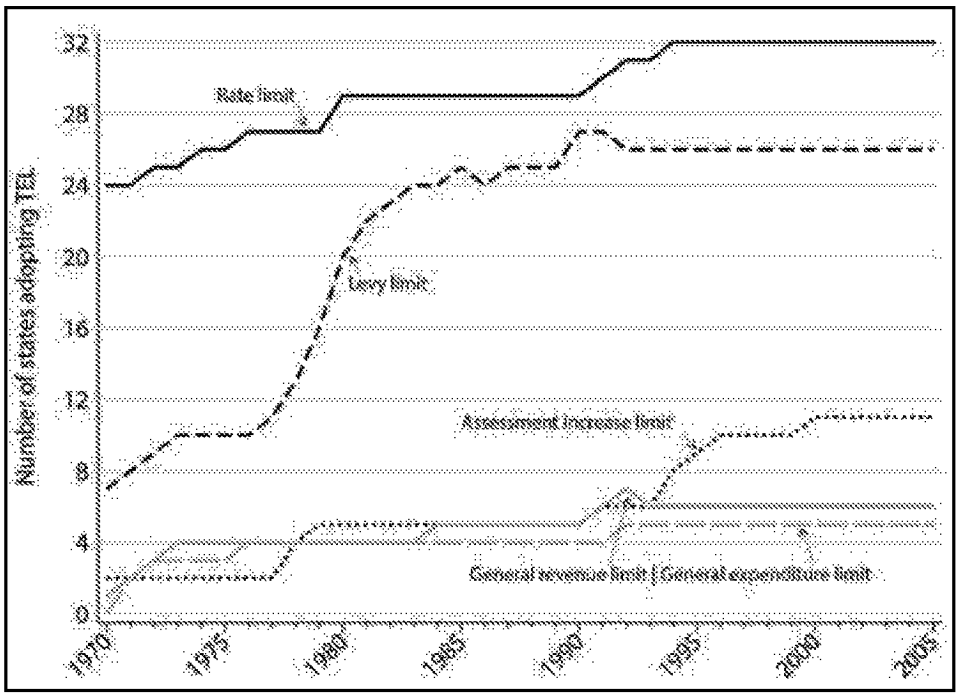
Figure 2, however, illustrates that not all states have chosen to respond to their revenue difficulties by making cuts to intergovernmental aid. A study from Pew's American Cities Project reports that Connecticut, which provides one of the more vibrant aid environments in the country, chose to slightly bolster intergovernmental aid to its local governments on the heels of the Great Recession (in fiscal year 2010) and has not reported a cut since then. Nebraska, on the other hand, canceled all funding to its local governments in 2011; Maryland, California, Arizona, Nevada, Minnesota, Texas, Virginia and Wyoming made 5 to 6 percent cuts that same year. All else being equal, we would expect it to be far less onerous to balance revenue and expenditure flows in city governments in states such as Connecticut, New York or Massachusetts – i.e., states where key state decision makers seem less inclined to shift service costs to local governments via cuts in state aid during times of state financial stress – than in cities facing similar sets of environmental, political or managerial conditions in states that provide lower or more volatile levels of intergovernmental aid.

State policies regarding levels and delivery of state aid are but one piece of an increasingly complex set of structures that govern local revenue capacity. In a classic textbook on American intergovernmental relations, Stephens and Wikstrom (2006, p. 196) remark, "Without doubt, the most important mechanism that the state has for influencing the political behavior of local officials involves financial assistance." This may have been true in the 1970s or 1980s, and to be sure it is a fundamental tenet of traditional models of fiscal federalism, but the most important mechanism for controlling local fiscal behavior in the past quarter-century is the tax and expenditure limit (TEL) – a label that broadly captures state attempts to limit the taxing and/or spending authority of its local governments through constitutional amendment or legislative enactment.

State governments have long imposed some manner of TEL.[8] Figure 3 tracks the adoption of TELs since 1970 across the four most common categories: *rate limits* – which are overall or specific tax rate limits that set the ceiling on the aggregate tax rate, which cannot be exceeded without a vote of the electorate; property tax *levy limits*, which constrain the total amount of revenue that can be raised from the property tax (independent of the property tax rate); *assessment increase limits*, which cap the growth rate of assessed values and is intended to control the ability of local government to raise revenue either by reassessment of property or through escalation of property values; and

8 For instance, the first states to establish property tax rate limits were Rhode Island (1870), Nevada (1895), Oklahoma (1907) and Ohio (1911).

Figure 3. Proliferation and Layering of TELs Since 1970

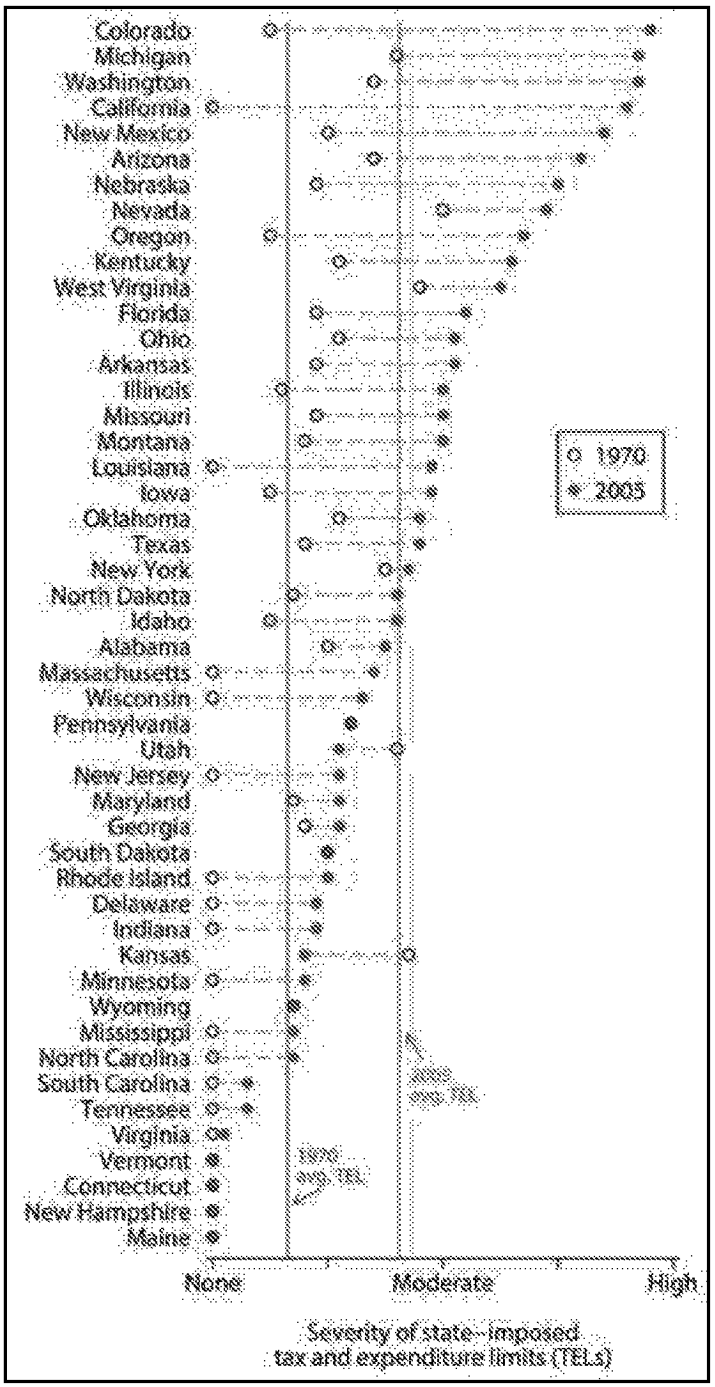


limits on *general revenue* or *general expenditure* increases, which set the maximum growth rate of total revenue or total spending.

Whereas a great deal of research has shown that the appearance of even a single TEL constrains the capacity of local officials to generate revenues on their own (see Poterba and Rueben, 1995; Shadbegian, 1996, 1999; it is the accumulation or layering of fiscal constraints that can be particularly damaging to the revenue capacity of local lawmakers.[9] In single-TEL states, for instance, raising assessments might be employed to circumvent property tax rate limits and vice versa; in states that impose only an assessment cap, this single limitation could potentially be overcome by adopting a higher rate. These methods of circumvention were common early in the 1970s, when 24 of the 29 states adopting some form of TEL imposed only one constraint (mostly rate limits), and a mere five states imposed two revenue TELs. Today, at least 27 of the contiguous 48 states impose multiple revenue TELs. Nineteen states impose two, and eight states – Arizona, California, Colorado, Michigan, Nebraska, Nevada, New Mexico and Washington – apply three local tax limitations.

The number of TELs in a state does not necessarily capture the severity of the limitation(s), though it is reasonable to expect a higher frequency of TELs to create a more restrictive local tax environment. Figure 4 displays a measure of TEL severity (see appendix regarding our research approach beginning on page 25), with the open point illustrating the severity of the state's TEL in 1970, the closed (maroon) point plotting restrictiveness in 2005, and the dashed horizontal line representing the change in severity of the state's tax limitations.[10] Figure 4 reveals some noteworthy patterns that illustrate the reality of state policy choices regarding local tax structures. Michigan, a state that imposes one of the more onerous sets of revenue restrictions, achieved this status via a one-two punch of major constitutional amendments enacted by voters: the Headlee Amendment in 1978 and Proposal A in 1994.[11] The Headlee Amendment capped local property tax millage rates to the rate of inflation. Proposal A – a constitutional amendment quite similar to Proposition 13 in California, a state with a similarly restrictive fiscal relationship with its locales – further limited local property tax revenue growth

Figure 4. TEL Escalations by State



9 Rising adoption rates are on display in Figure 3. So, too, is the increasingly common phenomenon of TEL layering, meaning the imposition of state-imposed controls on multiple elements of the local tax structure. And those controls are growing: in 1970, 29 of the contiguous 48 states had at least one revenue TEL; today, some 41 of 48 states have at least one local revenue limit.

10 The measure of TEL severity, initially proposed by Amiel, Deller and Stallmann (2009), indexes six key characteristics: the type of TEL (see discussion above), if the TEL is statutory or constitutional, growth restrictions, method of TEL approval, TEL overrides and exemptions, and method of override. For a more detailed discussion of this measure, see Amiel, Deller, and Stallmann (2009) and Maher and Deller (2013).

11 Constitution of the State of Michigan, Sections 25-33.

by changing the system of assessment to cap individual property values and prohibiting cities from "rolling up" a millage to the rate of inflation if actual property value growth was lower than inflation.[12] Taken together, these two large TEL ratchets, which came 17 years apart and layered on top of an already aggressive property tax rate limit, placed tremendous pressure on local lawmakers' ability to generate critical revenue (Brunori et al., 2008). Contrast Michigan's approach to that of Massachusetts's Prop 2½, a similarly infamous state-imposed TEL, which was passed by referendum in 1980 and effectively caps local property tax levies at 2.5 percent of real property value. Massachusetts's relatively moderate position on the severity index owes much to the state's choice to apply no corresponding rate, revenue or assessment limits on local lawmakers.

TELs, taken alone, are neither inherently good nor bad. They have been alternately portrayed as necessary evils for taming "Leviathan" city governments (Brennan and Buchanan, 1979; Craw, 2008; Downes and Figlio, 1999), or as just plain evils that stifle cities' abilities to pursue innovative visions for their futures (Frug and Barron, 2008).[13] However, over three decades after the tax revolt movement took hold in a major way in states such as California and Michigan, the widespread adoption of local TELs depicted in Figures 1 and 2 has had two overarching effects: the first is the loss of local revenues; the second is decreasing local reliance on property taxes.[14] There is little evidence to suggest that TELs, however, promote local fiscal sustainability. The reason is that local spending mostly goes unaffected by revenue limits (Dye and McGuire, 1997), particularly in the absence of state-imposed spending lids, which exist in only a small handful of states.[15]

In sum, the proliferation of state-imposed TELs has helped to create a national state-local fiscal system that is simply less conducive to local governments' abilities to fund their own activities.[16] States with more aggressive local TELs – such as Michigan, Colorado and California – hinder the revenue capacity of their local governments. This capacity is vital during even the most moderate of economic downturns because service demands tend to rise and state aid tends to drop. Revenue slack, however, was particularly vital during the most recent recession. In previous downturns, home prices mostly remained stable, thus steadying property tax revenues (particularly in relation to sales and income taxes). In the 2009 recession, property tax revenues, already slowed in certain states via state-imposed TELs, plummeted in simultaneity with state aid. The good news, as we illustrate below, is that a relatively small number of states impose such crippling revenue constraints from both ends: meaning states that both limit own-source revenue capacity while also providing far from vibrant levels of state aid. The bad news is that, for local officials who must operate within those state environments, even small declines in revenues can present tremendous budgetary challenges.

Mapping the Revenue Squeeze: Revenue "Carrot" and Revenue "Stick" States

As property tax revenues continue to erode as a function of state-imposed TELs and local governments have become more reliant on state aid, some observers have suggested that state governments have responded to their expanding role in local fiscal affairs by providing greater levels of intergovernmental revenues (Berman, 2003; Sokolow, 2000; Dye and McGuire, 1997b).[17] This reading of state-local fiscal dynamics is somewhat supported by comparing trends in average levels of state aid to local governments exhibited in Figure 1 and total revenue limit adoptions depicted in Figure 3. However, our data allow for a far more detailed look at how local revenue capacity is being affected by state policies for local governments within each of the lower 48 states.

Figure 5 depicts a rough state-level indicator of the severity of state restrictions on local revenue capacity. States for which our standardized measure of per capita state aid far exceeds our standardized measure of the severity of local revenue limits – such as Connecticut, New York, Massachusetts, New York, Rhode Island and New Jersey – are depicted in orange and labeled revenue carrot states. All else being equal, we would expect the revenue capacity of local governments in these states to be buttressed by their state context. As was pointed out above, a well-structured state aid environment increases the overall fiscal capacity of local governments and, according to Pagano and Hoene (2010, p. 260), can provide "a level of equalization and base support for municipalities that may lack other resources." Additional value to local revenue capacity stems from the fact that critical own-source revenues are

12 Many other provisions of both the Headlee Amendment and Proposal A are related to other parts of the state finance system, and a detailed examination of the depth of both laws would be a paper unto itself. We will discuss the impacts of these types of laws, generally and in Michigan, later in the paper.

13 To be sure, they are a frequent source of local consternation, particularly as fixed costs occupy a larger share of local budgets and demand for services – driven by postrecession unemployment rates, population changes and other factors – continues to rise.

14 Indeed, in many state contexts, forgone property tax revenues have at least partially been recovered via more regressive revenue sources – such as fees and, where allowed, sales taxes.

15 This is an important point that is often obscured by the frequent reliance on the TEL acronym (Tax and *Expenditure* Limits).

16 Amidst the national clamor for government austerity and fiscal responsibility, it is important to point out that these activities – particularly in the states that impose the most formidable set of revenue constraints, such as Michigan, California and Colorado – include essential local services such as public safety and infrastructure maintenance, which are critical functions of local government.

17 Greater local reliance on state aid does not necessarily mean that state officials have "anteed up," a point that, mainly because of data constraints, is too often overlooked.

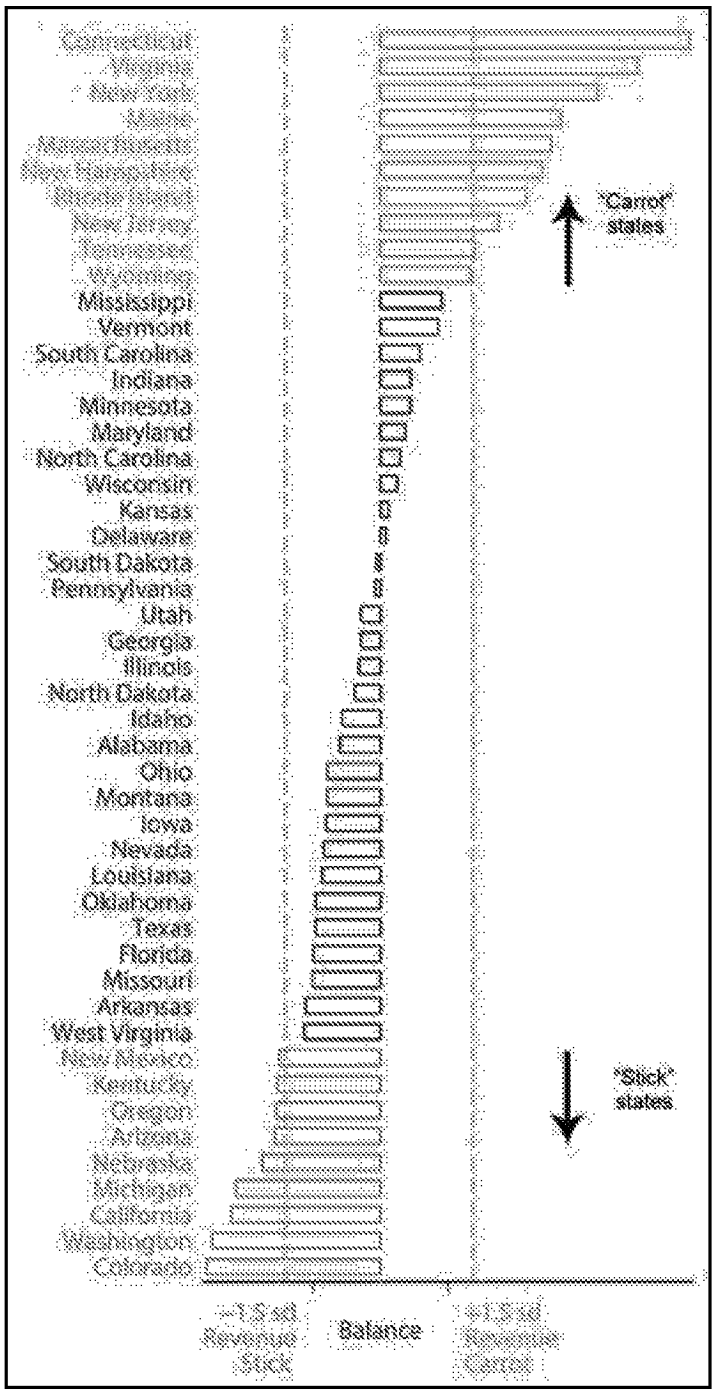
either altogether unencumbered by the absence of state TELs, as in Connecticut; limited only on the margins, as in Rhode Island or Tennessee; or limited via more aggressive TELs offset via significant funding from the state, as in Massachusetts.

Revenue stick states – such as Michigan, Colorado, Washington and California – are depicted in brown. These state governments (or state citizens via the referendum or initiative process) constrain the fiscal autonomy of local government officials rather than buttress it via state aid. An extensive body of research on the local effects of state-imposed TELs strongly suggests that revenue limits have worked: local own-source revenues have been reduced in the states that impose such limitations. Though there is some historical evidence that state legislatures in certain states have offset these limitations via state aid (Mullins and Joyce, 1996), revenue stick states tend to be far less generous in the allocation of intergovernmental revenue. All else being equal, we would expect the revenue capacity of local governments in these states to be constrained by their state context.

Michigan, for instance, has a TEL score well above the most recent annual state average, coupled with slightly below average state aid. The problem with local fiscal sustainability in revenue stick states such as Michigan stems from local governments' heightened reliance on state revenues, which in Michigan is a function of two large TEL ratchets and, in the post-Great Recession period, sharply declining property tax revenues. This high degree of dependency remains in place today. Yet, much like the way that Michigan's Proposition A has exposed critical local education funding to state budgetary battles (Cullen and Loeb, 2004), the state's unyielding property tax rate limits, coupled with special features of the Headlee Amendment that forbid the use of some alternative revenue sources employed in other states (e.g., income, sales and motor fuel taxes), have had the unfortunate side effect of essentially entwining local fiscal health with state legislative politics. As the state economy faltered under a one-state recession throughout much of the 2000s (Darga, 2011), the past decade has seen both clear declines in statutory revenue sharing and heightened levels of uncertainty over revenue-sharing rules (Lavelle, 2014, pp. 2-3).

Michigan's is a precarious fiscal context even for the most well-managed city government. It is particularly onerous for lawmakers in older, industrial cities such as Flint, which has been dealing for some time with sustained job and population loss, waning bureaucratic capacity, and increasingly daunting economic, social and physical challenges (see Doidge et al., 2015). In the words of one local official, if aid is reduced, "It's not rocket science ... pretty much raise taxes or cut services. That's what it boils down to" (McDermott and Powers, 2002, p. 12). Local lawmakers in a state such as Michigan, where they operate

Figure 5. Revenue "Carrot" and Revenue "Stick" States



with very limited discretion over revenue capacity, can boil it down even further: reduce or eliminate services or face the prospects of possible financial meltdown. All cities face political constraints on raising tax revenue. And certainly, some cities have managed their financial affairs in the face of economic decline better than others. However, for those seeking to fully grasp the nature of local fiscal health, we must continue to focus on ways in which states effectively create a mismatch between fiscal needs and available resources into their cities' local fiscal decision-making environment.

(2) Expenditure-side Pressures: Labor Costs and State Regulation of Local Public Employee Collective Bargaining

In addition to the revenue squeeze that some states impose on their local governments, state governments also impose a range of expenditure-side pressures that can drive up local costs.[18] As state governments continue to streamline bureaucracies and downsize operations, service burdens have been shifted onto local governments, often "without careful consideration whether this was the correct course" (Gold and Wallin, 1999, p. 73). As one prominent National League of Cities report argues (2003, p. 23), the transference of "program responsibilities from state and federal government, as well as the imposition of state and federal mandates, increase the roles and responsibilities of municipal governments, often without corresponding fiscal capacity or authority." Observers and analysts interested in the expenditure-side burdens that state policies place on local officials typically focus on the effects that costly mandates in areas such as health care and pollution abatement have on local government budgets (see Berman, 2003, pp. 77-83). Far less attention is paid to what we might call *de facto* spending pressures – the hidden but potentially damaging state-level decisions, policies and institutions that can destabilize local governments' fiscal capacity.

Consider, as we do in this report, local governments' large and increasing burden to pay for previously obligated labor costs. Labor costs, including wages and benefits for current employees as well as pensions and other postemployment benefits (OPEB) such as retiree healthcare, currently make up the largest category of operating costs for local governments. As pointed out in a recent MSU white paper (Scorsone and Bateson, 2013), municipalities were not required to measure the total costs of OPEB until an accounting standard was issued in 2004, with implementation beginning in 2007. Now that local governments have calculated and accounted for OPEB, many are faced with a massive commitment. Indeed, MSU's review of Michigan cities facing severe fiscal stress revealed that each city was confronted with a substantial unfunded OPEB liability (Scorsone and Bateson, 2013).

Though local government employee pensions and OPEB are seemingly always in the headlines, few seem to be asking why observers are more able to link labor costs to local fiscal distress in certain states than in others. Why do we hear so much about Michigan, Pennsylvania, California, Rhode Island and New Jersey? The answer, not surprisingly, is that, although city lawmakers are often criticized for overly cozy relationships with public employee labor unions (see, for instance, Gillette, 2014a; Rozansky, 2012; Greenhut, 2012), critical elements of employee benefit costs are structured by state law. State law may require bargaining by the employer, may provide only for a bargaining forum without requiring it or, alternatively, may simply prohibit collective bargaining altogether. State laws vary in the coverage of certain types of local employees. These rules address the types of items that may be bargained over, such as work rules, pay and benefits. Finally, the collective bargaining laws may include a process for dealing with impasses, such as binding arbitration rules. In line with the framework proposed at this report's outset, we view the mix of these rules as a set of processes and constraints that directly influence a municipality's fiscal capacity.

Table 1 places the local public employee collective bargaining environment of the contiguous 48 states into a five-category classification scheme ranging from very weak to very strong. (See the research approach appendix for a more detailed explanation of this measure.) As Table 1 makes plain, states vary with respect to the collective bargaining environment for local public employees. Not surprisingly, states with strong and very strong collective bargaining environments (e.g., those that impose a duty to bargain with strong union security provisions) have comparatively high union membership rates as well, with New York, Rhode Island, New Jersey, Connecticut, Massachusetts, California, Illinois, Oregon, Minnesota, Pennsylvania and Michigan each holding union membership rates in excess of 50 percent of state public employees. Unionization rates in weak and very weak states, such as Mississippi, South Carolina, North Carolina, New Mexico, Wyoming, Utah, Georgia and Virginia, on the other hand, tend to fall around 10 percent.[19]

State laws concerning pensions and health benefits illustrate, in part, how state-imposed structures affect city expenditure choices. Yet recent attention to employee compensation, pension system funding/underfunding and, especially, the cumulative impact of local government employee costs on current municipal cash flows have

18 This general phenomenon has been termed "second-order devolution" – meaning the transfer of program administration and/or substantive policy powers from the federal and state governments to America's cities and municipalities (see Bowman and Kearney, 2011).

19 Statistics from Union Membership and Coverage Database (see Hirsch and Macpherson, 2003).

brought these issues, in particular, into national focus. To be clear, we do not suggest that a non-unionized workforce is the key to a fiscally sustainable city. City governments must compete with other employers for workers, and rules governing bargaining are part of a state's larger labor culture. Our simple argument is that, in light of the sizeable role for local labor costs in local budgeting as well the implementation of new accounting standards, city governments operating within states with more permissive collective bargaining provisions are more likely to face budgetary constraints. It is easy to pin these constraints on lousy decision making, yet these constraints owe much to higher labor costs and the cumulative costs of payment decisions that are, to a large degree, governed by state policy.

(3) The State Context for Local Fiscal Distress: Tension Between Revenue and Expenditure Pressures

Analysis of the interplay of revenue and expenditure pressures allows for a more detailed assessment of the nature of the fiscal context in which states place their local lawmakers. We offer this analysis as something of a corrective to the typical perception that a city's financial destiny is either entirely within or entirely outside of its control. When assessing why certain local governments seem to respond more effectively to their financial problems than others, our research suggests that identifying on Figure 6 (see page 14) the state in which the city is located is a good place to start. The state's coordinates represent an empirical measure of the state context for local fiscal distress – meaning the tension for local lawmakers between state-imposed revenue-side pressures (captured on the horizontal axis) and state-imposed expenditure-side pressures (captured on the vertical axis).[20]

20 More technically, the horizontal axis captures our measure of the revenue pressures that states inflict upon their local governments (standardized TEL severity score minus standardized average per capita aid score). The vertical axis represents a standardized measure of public employee union coverage, an approximation of the severity of the average city's relatively fixed labor costs. The light gray shading represents the distance between one quartile above and one quartile below the median; thus states that appear outside these two intersecting ranges are quite different from average on both elements of the state context. Dark shaded points indicate state governments that authorize state intervention in financially distressed local governments.

Table 1. State Collective Bargaining Environments for Local Public Sector Employees

Collective bargaining environment	States		Brief description
Very strong	Illinois Minnesota Montana Ohio	Oregon Pennsylvania Vermont Wisconsin	Duty to bargain Strong union security provisions Strikes are permitted with qualifications
Strong	California Connecticut Delaware Maine Massachusetts Michigan	New Hampshire New Jersey New York Rhode Island Washington	Duty to bargain Strong union security provisions Strikes are prohibited
Moderate-mix	Florida Idaho Iowa Kentucky	Nebraska Nevada Oklahoma South Dakota	Some bargaining rights Weak union security Strikes are prohibited
Weak	Arizona Arkansas Indiana Kansas Louisiana Missouri	New Mexico South Carolina Texas Utah West Virginia Wyoming	Limited collective bargaining rights Right to work Strikes are prohibited
Very weak	Alabama Colorado Georgia Maryland Mississippi	North Carolina North Dakota Tennessee Virginia	Collective bargaining is prohibited Right to work Strikes are prohibited

Figure 6. Assessing the State Context for Local Fiscal Distress

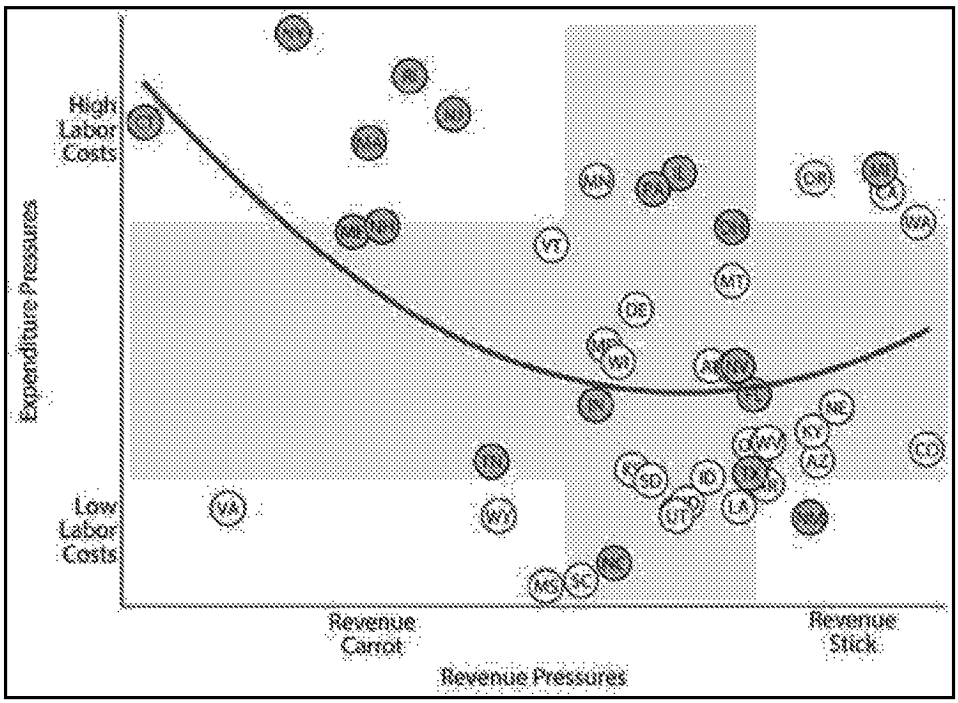


Table 2. Tabulating the State Context for Local Fiscal Distress

State-Imposed Expenditure Pressures	State-Imposed Revenue Pressures		
	Carrot	Balance	Stick
High	Connecticut Massachusetts New Jersey New York Rhode Island	Illinois Minnesota Pennsylvania	California Michigan Oregon Washington
Moderate	Maine New Hampshire Tennessee Vermont	Alabama Delaware Florida Indiana Iowa Kansas Maryland Montana Nevada Ohio Oklahoma Wisconsin	Arizona Colorado Kentucky Missouri Nebraska West Virginia
Low	Mississippi Virginia Wyoming	Georgia Idaho Louisiana North Carolina North Dakota South Carolina South Dakota Texas Utah	Arkansas New Mexico

If state-imposed revenue pressures increased with the severity of expenditure pressures, or vice versa, we would expect a positive "best fit" line (the dark curving line in Figure 6) moving from the lower left-hand quadrant to the upper right. As one might expect (or at least hope), these two elements of the state context tend to offset each other. States such as Colorado and New Mexico – i.e., more revenue stick states (local tax limitation increases outpace growth in the distribution of state aid) – avoid equally exacting expenditure-side pressures, at least when it comes to local labor costs. For states that do structure local collective bargaining in a way that favors higher local labor costs – such as New York, Connecticut and Rhode Island – these costs are at least partially offset by a more resilient and vibrant aid environment, coupled with limited own-source revenue restrictions.

The relationship between these two elements of the state context is negative, but it is not a purely linear relationship. Figure 6's most striking feature is its illustration that states placing extreme limitations on local revenue capacity (meaning they are more than one standard deviation above the state average on the horizontal axis) also tend to impose costly labor and service obligations (more than one standard deviation above the state average on the vertical axis). This relationship between revenue and expenditure pressures creates a best-fit line that resembles a backwards "J". This small handful of states that pull the line upward – which include Michigan and California – cluster in the upper right-hand quadrant of Figure 6. It is no surprise that acute financial emergencies have clustered in these states. We contend that they have structured local fiscal policymaking in a way that effectively incubates financial distress. Table 2 classifies the states in an effort to clearly represent the position of each of the lower 48 states along these two dimensions.

The threat of recurring structural deficits is "baked in" to the state-imposed legal and policy context in which local governments choose how to respond to fiscal problems. For lawmakers in America's older, industrial cities who must operate within these states, that choice is often not theirs to make. As we point out above, these states apply revenue and expenditure pressures on the front end, while also fostering a fiscal environment that exacerbates fiscal stress, links local fiscal health to budgetary battles, and all in all restricts the policy "space" for local fiscal policymaking. Michigan, however, is the only state among the incubators in the top right quadrant of Table 2 and Figure 6 that also intervenes "on the back end" by assertively implementing one of the nation's most powerful fiscal distress intervention policies (Anderson, 2011; Scorsone, 2014).

In light of the clustering of distressed localities within Michigan's borders, it comes as little surprise that Michigan lawmakers would value a policy that allows state officials to help struggling local governments meet conditions of chronic fiscal stress (Scorsone and Bateson, 2011; Doidge et al., 2015). However, as we discuss below, what is quite striking is the relationship between the policy's goals and design – which favors state takeover of local government – and the nature and underlying causes of the problem of acute fiscal distress. The financial consequences of deep-rooted economic and social forces are unlikely to be fully alleviated via temporary suspension of local self-government. Neither are the often overlooked but critically important state-imposed causes analyzed above. In what follows, we survey the state governments with more holistic and self-aware views of local financial distress in an effort to draw important lessons for Michigan lawmakers as they continue to struggle with chronic fiscal stress among the state's localities.

Section 2: If Takeover is the Solution, then what is the Problem? What Michigan Can Learn from the Ways in Which Other States Tackle Problems of Local Fiscal Distress

In the previous section, we make the case that state governments influence how local officials meet their financial problems via a combination of laws and policies that add or take away intergovernmental or own-source revenue capacity and drive up expenditure pressures via the allocation of policy authority over government functions and labor costs. In certain instances, such as when a state government caps property tax revenue and sets near insurmountable override standards, the effects of certain elements of the state context may be more or less direct. A city facing a near identical set of political, institutional, economic and social circumstances that operates in a neighboring state with no such revenue cap at least has the potential to capitalize on this capacity, assuming local political and economic constraints allow for the imposition of a property tax increase. But mostly the effects of this state context are more indirect. The policy balance between revenue restrictions and state aid, for instance, is not so much a direct measure of state policy choice as it is an outcome of a variety of state policy choices – e.g., revenue-sharing rules and formulae, the outcomes of citizen initiatives involving local TELs, legislative-executive budgetary processes, bureaucratic turf battles and so on.

Since as far back as the late 19th century, when the proliferation of railroad bankruptcies prompted states to take action to assist struggling localities (see Dimock, 1935 and 1940), state lawmakers, for fear that "a failing municipality will lower the credit rating of other localities and the state itself" (Berman, 2003, p. 113), have played a far more direct role in responding to local financial distress. The current menu of state policy options for intervening in distressed communities has been reviewed in two recent reports, one by Pew Charitable Trust researchers (Atwell et al., 2013) and a second by one of the authors of this report (Scorsone, 2014). One key shortcoming of these reports is the absence of detailed consideration of state context. Simply put, some states are part of the problem – they incubate financial distress via stringent restrictions on local revenue capacity and state policies precipitating local spending pressures. In other states, local policy options regarding the balance of revenue and expenditure flows are less encumbered by state policies and institutions. This diversity among state contexts is particularly important when reflecting on "best practices" for states dealing with acute local fiscal distress. For instance, close followers of issues of local finance often hear and read about North Carolina's strong oversight and monitoring mechanisms as standards to which state governments should aspire (see, for instance, Mattoon, 2014). But does it make sense for a state such as Michigan or New Jersey, for instance, to adhere to similar policy principles when local fiscal policymaking is structured in such dramatically different ways?

A second shortcoming of these reports is the dearth of detailed comparison among the 18 state governments that currently have an intervention policy. We refer readers to these reports for their quality in cataloguing the formal policy powers of state lawmakers on paper. Neither, however, is as useful at considering these policies in practice. This is a key tension in policy analysis generally and in instances of intervention in particular. The choice of the state's appointed and elected officials to employ the power they have at their disposal and intervene in a distressed community (often meaning the temporary suspension of democratic processes) presents a particular type of implementation dilemma imbued with questions of racial bias, social and economic imbalances, and the legal and political culture that guides state-local relations.

To fully assess the role of state governments in financial distress, we held a workshop for state government officials, analysts and experts with deep knowledge of state operations in local financial affairs. The Workshop on State Intervention in Distressed Communities, held in the fall of 2014 in Detroit, ultimately brought together a diverse group of 28 practitioners and policy experts from six states facing similar sets of local fiscal problems: Michigan, Rhode Island, New Jersey, Pennsylvania, New York and Ohio.[21] The appendix provides a detailed overview of the structure of the event and the types of discussions that were held.

Our primary goal was to provide a venue facilitating the open exchange of ideas and techniques for approaching the complicated problems facing cities in fiscal crisis. Indeed, as we discuss below, one recommendation of this research

21 This portion of the process focused specifically on how states approach intervention. Though many of the participants in the workshop were intimately involved in making decisions at the city level, we intentionally chose participants representing the state perspective rather than that of local decision makers.

report is to continue to advance this and similarly minded endeavors as a means of facilitating what Peter May (1992) refers to as "instrumental policy learning," which can improve state officials' understanding of the benefits and limitations of particular policy approaches or administrative designs. A second goal centers on learning more about the states' implementation processes for deciding whether to designate a city in distress, take it over temporarily or, in the most extreme cases, help shepherd its path to municipal bankruptcy. Our final goal was to investigate the types of "causal stories" (Stone, 2011) that state officials and experts used when considering the fiscal conditions facing their local governments. We held structured discussions about how the problem of local fiscal distress is defined (i.e., who or what bears the responsibility) and the ways in which state governments enshrine this problem definition via the design and implementation of financial emergency policies.

In what follows, we begin with a brief outline of Michigan's approach to local financial emergencies, paying special attention to linkages between the state's policy solutions, the nature of fiscal stress in Michigan's municipalities and the "front-end" context identified in Section 1. We then turn to alternative approaches employed in other key states. We begin with North Carolina, a state whose Local Government Commission, which administers the policy for dealing with financially challenged communities, has received a great deal of national credit. We then move to states facing more comparable sets of local conditions – i.e., with many older, industrial and fiscally vulnerable local governments suffering from population and job loss – that also have a history of state intervention in fiscally distressed communities. The goal here is not comprehensive overview. Rather, we set out to identify key dissimilarities with the new generation of intervention policies – of which Michigan's current policy is the poster child – and to illustrate how state governments facing similar sets of challenges can more effectively align their policy regarding direct involvement in fiscally distressed communities with the nature of problems that these communities face, as well as with state-imposed constraints that hamper their capacity to balance revenue and expenditure flows.

We designed Table 3 (see page 18) to help guide this discussion. The first two columns summarize the state context analyzed in Section 1 of this report. The four rightmost columns depict information summarizing the design and administration of the state's local financial emergency policy. The column labeled "causal story" reflects our assessment of how a state government, via its legislation of state intervention, comes down on the debate over the causes of local financial failure. For some states, the focal point is internal causes – poor management, the incompetence of local leaders, political corruption, the dominance over policymaking by narrow interests, and/or "antidemocratic" structures and processes that favor the whims of local officials over the needs of local residents (Gillette, 2014b). Other states focus on forces external to local management – i.e., socioeconomic conditions that are at once causes and symptoms of diminishing local service capacity and resources (see Kimhi, 2008), such as high and concentrated poverty, older building stocks, residential vacancies, high crime, deep-rooted regional changes, population loss and job loss. The column labeled "policy approach" captures the gist of the state's approach to financially distressed communities and reinforces the causal theory behind the policy's design. We also include information on the administration of the states' policies. Here the focus is on the powers of key administrative actors and their bureaucratic location. In line with a great deal of research on policy analysis and the policymaking process, we structure Table 3 in a way that suggests that key state decisions on goals, administration and implementation flow from how responsibility for the problem is assigned – i.e., the causal story (see Stone, 2011, p. 206). This information is provided for the six states that were represented at the Detroit workshop – Michigan, Rhode Island, New Jersey, Pennsylvania, New York and Ohio – as well as for North Carolina, a state that frequently gains attention for the effectiveness of its intervention policy.

(1) Michigan's Local Financial Stability and Choice Act: A Brave New World for State Intervention

The tenets of Michigan's intervention policy have been well-documented in research reports and news media. After the governor declares a fiscal emergency,[22] four possible courses of action are available to a municipality,[23] though local takeover by an emergency manager (EM) is the most common course of action. This allows a state-appointed manager to "act for and in the place and stead of the governing body and the office of chief administrative officer of the local government" and effectively grants this individual powers beyond those available to local officials.[24] Not only does he or she become responsible for all local fiscal decisions, including development and implementation of a recovery plan (which must be approved by the state treasurer), but the EM can also modify existing collective bargaining agreements, negotiate new union contracts and make personnel changes. The EM can also explore the option of consolidating services with another government entity, sell municipal assets and ask voters to increase the tax rate. The EM remains in this role until the city reaches certain benchmarks within its recovery plan, and a

22 A series of triggers are in place and one must occur – e.g., failure by the local unit of government to pay creditors or make timely pension contributions – prior to a state review of a local unit's finances

23 Consent agreement, emergency management, neutral evaluation or municipal bankruptcy.

24 141.1549, Sec. 9.

Table 3. Intervention Policy in the Context of State-Local Fiscal Relations

State	State Context		Local Financial Emergency Policy			
			Design		Administration	
	Revenue Pressures	Expenditure Pressures	"Causal" Story	Policy Approach	Agency/Govt. Branch	Responsibilities
Michigan	Revenue stock (top 5%)	High (top 20%)	Management (internal)	State-appointed manager furnished with broad tools to restore solvency (mostly on spending side) once distress occurs. Michigan typically does not intervene in local fiscal affairs until a fiscal emergency is recognized. There is no program of prevention.	Governor Department of Treasury (Office of Fiscal Responsibility)	Declaration of financial emergency and appointment of powerful emergency manager. Monitor emergency management process and approve certain decisions.
New Jersey	Revenue carrot (bottom 10%)	High (top 5%)	Socioeconomic factors (external) Management (internal)	Support distressed communities. When/if cities enter distress, the state makes available monetary and technical assistance.	Department of Community Affairs (Division of Local Govt. Services)	Monitor and approve local budgets, certain debt and capital investments; approve of additional aid; advocate for local government interests.
New York	Revenue carrot (bottom 5%)	High (top 1%)	City specific	Generate city-specific solutions. The legislature designs and enacts a specific policy for each city in distress. Prevent distress from occurring. The comptroller's office has designed an extensive monitoring system, staffed by many state auditors, to help local officials stave off financial emergency.	Legislature Office of the State Comptroller Governor	Legislate and adopt city-specific legislation, including establishing local control board. Preventive monitoring of all local budgets and administration of fiscal monitoring system. Appoint local control board.
North Carolina	Balance/lean carrot (bottom half)	Low (bottom 5%)	Management (internal)	Central control prevents distress. North Carolina has a highly centralized system designed to prevent risky decision making and borrowing by municipalities.	Department of Treasury (Local Government Commission)	Review audits, monitor local fiscal health, approve and settle local debt issues, require remediation plan.
Ohio	Balance/lean stick (top 40%)	High (top 25%)	Management (internal)	Support local control. Ohio intervenes at the request of local officials; recovery plans are submitted by local officials.	State Auditor (Local Government Services Division)	Train local officials, audit local budgets, classify distressed communities.
Pennsylvania	Balance (bottom half)	High (top 20%)	Socioeconomic factors (external) Management (internal)	Helps troubled communities "help themselves." Even in receivership, aims to address causes and prevent relapse, though communities may be unable to exit the state process because of systemic barriers.	Dept. of Community/Econ Development (Center for Local Government Services)	Place cities under receivership, distribute financial aid to distressed cities, monitor fiscal status of cities.
Rhode Island	Revenue carrot (bottom 15%)	High (top 5%)	Management (internal)	Restore solvency and prevent further decline once distress is imminent. Rhode Island has a strong receivership policy. It also offers additional assistance to cities approaching distress to help prevent full-fledged crisis.	Department of Revenue (Division of Municipal Finance)	Monitor all local governments, aid governments in or at risk of distress, appoint receiver.

receivership transition board is appointed by the governor to assist in transition until the official termination of receivership.

The structure of Michigan's successive intervention laws and the powers granted to the emergency manager point to a particular type of causal story – local government mismanagement as the chief barrier to fiscal solvency. The state's solutions and assistance all center on correcting local decisions that led to chronic budget shortfalls, and the main focus of Michigan's law, which is administered by the Department of Treasury, is to ensure a balanced budget. Efforts to achieve short-term fiscal solvency typically center on reductions in cities' financial obligations – e.g., cutting pension obligations, making personnel cuts and contracting out services traditionally provided by local governments. EMs and other state officials have little leeway to affect the revenue side of local governments' ledgers. As Anderson (2011, p. 620) argues, the viewpoint being expressed by the design and implementation of Michigan's policy is "that the current revenue picture of the city is adequate to provide for public safety, debt service, and other core expenses—if only ... the city had competent management." Indeed, little or no financial support accompanies state takeover. This is a telling feature of the state law that sheds considerable light on both the degree to which the policy oversimplifies the causes of local fiscal distress and the mismatch between the administrator's toolkit and the nature of the problem.

To respond to the question at the outset of this section: if takeover is the solution, the problem is mismanagement. Michigan codifies this causal story in a way that is less adulterated than in any other state we have surveyed. In other words, the state has adopted and codified a vastly oversimplified story. Even Rhode Island, which granted similarly sweeping powers to its state-appointed emergency managers, offers additional assistance to cities approaching distress to help prevent full-fledged crises. The state has also seen EMs (called "receivers") raise local taxes to generate more local revenue. This less than favorable assessment of Michigan's policy is buttressed by the absence of emergency bailout funding, a traditional feature of the more aggressively implemented state intervention policies (Berman, 1995; Anderson, 2011), as well as meager revenue-raising powers. EMs are empowered to tackle city expenditures as a means of bringing local budgets into equilibrium, but revenue-raising powers are effectively more limited than the powers normally afforded a city's mayor or council member. As has been pointed out elsewhere, for cities such as Flint, Ecorse, Benton Harbor and Pontiac, this is a gross oversimplification of the structural barriers to fiscal sustainability (Doidge et al., 2015). Our aim in this report is not to disprove the notion that mismanagement is the cause. We merely point out that the policy's design and implementation features devalue the considerable constraints that the state places on the revenue capacity of local officials.

(2) The Limited Applicability of "Best Practices": Why Adoption of North Carolina's Policies Won't Work for Michigan

The reentry of Michigan's cities into emergency management and the number of local governments and school districts in trouble have led to suggestions that Michigan should look elsewhere for answers.[25] A Pew Center on the States report suggests that North Carolina's monitoring system has prevented fiscal distress despite a history of crises during the Great Depression and some of highest unemployment rates in the country (Pew Charitable Trusts, 2013).

The Local Government Commission, a division of the North Carolina Treasury Department, reviews cities' independent audits on key fiscal health indicators, particularly the level of fund balance. If a locality fails to meet a specific threshold, it is placed on the commission's watch report and required to submit a plan of improvement. If local officials are unable to return the municipality to an acceptable level on their own, the commission assumes control of all local financial decisions, including taxing issues, until the problem is corrected. Additionally, the commission approves and sells all local bonds for public structure investments, which both increases the level of state oversight and reduces the potential for local mismanagement of debt. Bond agencies assign a premium to this monitoring system, considering it a model system (Coe, 2007).

Features of North Carolina's approach provide intriguing options for Michigan lawmakers, such as a codified, professional state office and extensive front-end monitoring to identify potential crises. However, evaluating these policies in isolation – i.e., in the absence of key contextual factors – is likely to overstate the potential success of North Carolina's policies if they were to be enacted in Michigan.

For instance, according to the U.S. Census Bureau, in 2007, North Carolina had 548 municipalities, no other local general-purpose governments and 100 counties; Michigan had 533 cities and villages (municipalities), 1,242 townships and 83 counties. A consequence of Michigan having three times as many local governments as North Carolina is that the volume of reports that would need to be reviewed for monitoring purposes would be three times as great.[26] Certainly this would require more resources devoted to oversight at the state level, thus putting additional stress on the state budget.

The states differ greatly on other dimensions of the elements of state context identified in Section I. North

25 http://www.crcmich.org/PUBLICAT/2000s/2000/memo1053.pdf.

26 This does not include the additional resources that would be required to monitor school districts, special districts or other governmental units.

Carolina has an obligatory state pension system; Michigan does not. In 1947, North Carolina declared it illegal for local governments to bargain with unions.[27] Conversely, Michigan's local governments have a strong history of collective bargaining and excluded police and fire unions from 2012's right-to-work legislation. Tax and expenditure limits, when averaged from 1970 through 2005, rank Michigan as the third most restrictive state in limits placed on local governments. North Carolina is 38th – a property tax rate limit on counties and municipalities, set in 1973, has remained its only TEL.

The differences in the state policy context between the two states suggest that Michigan should be cautious when drawing lessons from North Carolina as its model for intervention policies. We attribute North Carolina's success in preventing municipalities from entering distress not to the design of its specific intervention policy but rather to a much tighter link between its policy approach and the state-imposed context for fiscal distress.

(3) Rebuilding State-Local Partnerships: Key Insights from Rhode Island, New Jersey, Pennsylvania, New York and Ohio

One of the more striking findings to emerge from our workshop and subsequent research is the difference between Michigan's approach to local fiscal distress and the approaches of comparably situated state governments. These differences are laid bare in Table 3. Plainly put, state policies and institutions effectively incubate budgetary imbalances; yet lawmakers and administrators have ignored potential front-end damage when designing the policy aimed at helping communities in distress. Rhode Island, the state most comparable to Michigan in the priorities of its intervention policy and the powers granted to state receivers, also provides financial assistance to municipalities most in need, targeting aid to communities with a high property tax burden relative to taxpayer wealth through the state's Distressed Communities Relief Fund thus buttressing the revenue capacity of its local governments.[28] With respect to this specific aspect of state context, Rhode Island generally provides higher levels of state aid.

New Jersey and Pennsylvania: A More Comprehensive View of Local Financial Failure

Beyond Rhode Island, Michigan lawmakers have a variety of states from which to learn about the viability of policy alternatives. New Jersey and Pennsylvania have enacted receivership laws that are quite different than Michigan and Rhode Island. Internal mismanagement is not eschewed entirely; rather it is considered alongside the external, structural dynamics with which local lawmakers must contend. This more holistic causal story both reinforces and is reinforced by choices that these states have made regarding implementation and administration.

New Jersey's policy of assisting cities during times of financial crisis originated in the Great Depression. Since that time, the state has built support within its bureaucracy to review and approve city budgets and offer financial and technical assistance as needed to prevent cities from entering bankruptcy. Rather than appointing a state-level official to take charge of a city`s finances (such as an emergency manager in Michigan),[29] New Jersey seeks to assist local officials in alleviating distress. This partnership is reflected in the mission statement of the New Jersey Division of Local Government Services (DLGS), a division of the Department of Community Affairs. It states that the DLGS "serves as an advocate for local Government interests," provides assistance and is responsible for "financial integrity." The DLGS provides advisory services to local governments, both once the community is identified as distressed and on request of the municipality, and also licenses and educates local officials.

Not surprisingly, these two services help establish a partnership between state and local officials independent of the financial position of the municipality. The state requires that all local government budgets and certain financing and purchases be approved by state agencies.[30] The budget review is conducted by department staff members (many hired short-term annually) and is made easier for local units of government by state-provided training and consistent reporting requirements. When these preventive actions fail to ward off systemic financial issues, the state begins a more involved intervention. The community is first placed on a watch list, at which point the state generally channels additional monetary aid to the struggling government. The state also uses its Qualified Bond Act Program, which requires state approval to bond or make capital expenditures, to ensure stability and prevent default. This program can capture and stall state aid for payment of debt services. At the same time, DLGS offers technical assistance to cities to help them solve underlying problems that contribute to fiscal distress.

The most notable example is the consolidation of the Camden police force in 2010. The mayor terminated the entire city police force and contracted with the county to provide those services, with the guidance and support

27 N.C. Gen. Stat. 95-78 to 84 (http://www.nrtw.org/right-work-states-north-carolina).

28 Established in 1990. Municipalities that fall in the bottom 20 percent of three of the law's four indices qualify to receive state aid under the law. In the 2014 fiscal year, seven municipalities received funding through this legislation, a total of $10.4 million

29 Until recently, when Atlantic City was declared to be in fiscal distress and an emergency manager was appointed.

30 Procurements over $5 million must be reviewed by the comptroller, and those over $10 million must be directly approved.

of state officials.[31] Camden illustrates the cooperative efforts of various levels and sectors of the state and local governments. It highlights that preventive efforts to maintain or restore fiscal sustainability are not always sufficient, but that a collaborative approach can assist cities and the state through difficult political decisions. New Jersey's approach indicates that the state views itself in partnership with local governments, with a responsibility to provide a check on risky financial decisions but also to provide ongoing financial assistance to struggling communities.

In contrast to New Jersey's hesitance to use direct state control, Pennsylvania's Act 47 allows the state to place fiscally distressed communities in receivership under the direction of the Center for Local Government Services in the Department of Community and Economic Development. Once a municipality has been placed under receivership, local government officials must have the majority of their decisions confirmed by the receiver, and the receivership board may implement cost-saving or revenue-raising strategies unavailable to local officials. The board has the ability to raise taxes above the legal maximum but has no additional powers in collective bargaining. Principally, the receiver acts as a liaison between the local government and others to improve the financial integrity of the city and is typically able to broker additional state funding for the distressed community. In Harrisburg's recent financial descent, for instance, the receiver was able to facilitate $25 million of revenue to fund a non-profit that would provide infrastructure and economic development.

Receivers in Pennsylvania tend to take a comprehensive view of local financial difficulties as they work with the state to look for alternative partnerships and unique revenue-enhancing and cost-sharing schemes. Proposed financial recovery plans often include recommendations that will improve local governments' economic positions in the future. This approach extends through the process of recovery. It requires more research, more interactions and coordination between parties, and more time to allow for business adjustments and industrial reorganization. Furthermore, it includes a period of weaning cities off the additional funding to which they had access during their most trying times. To officially exit Act 47, cities must follow an extensive process that includes hearings and the department director's signature. As a result, Pennsylvania has had only seven of 28 distressed communities officially conclude the process. Allowing cities to remain in a system with additional structure and support illustrates Pennsylvania's acknowledgement that factors outside of local control contribute to fiscal issues, and that the state has some role in providing additional support.

In all, intervention policies in New Jersey and Pennsylvania are administered by state agencies dedicated to working with local governments. State personnel are involved with municipalities well before distress, and they have resources and authority to assist municipalities. Though administrators are afforded the statutory authority to assume greater control over city finances, this is not the only facet of their relationship with local governments.

New York and Ohio: The Benefits of Monitoring

Similar to New Jersey and Pennsylvania, New York has established a system that supports state and local cooperation and information sharing. As local fiscal crisis deepens, the state becomes more involved in local political and operational affairs. The state's policy approach to local fiscal emergencies is ad hoc\ (rather than multijurisdictional), allowing lawmakers to survey the specific causes of distress for a given community and legislate solutions in line with these problems.

As is well-documented, New York's history of fiscal intervention begins with New York City's near bankruptcy in 1975. Naturally, a crisis of that magnitude spurred state action, but since that time, New York has not been plagued by chronic distress. This is due in part to cities' ability to increase revenues without legal restriction (until 2014, when the state imposed a cap on property tax increases). Additionally, many New York communities have avoided the economic peril that results from a loss of major industries and subsequent economic restructuring.[32] This history is evident in the state's view of municipal distress as an unusual and unique instance that requires customized solutions. New York provides gradual intervention and individualized approaches to distress, with the decisions and the process supervised by state elected officials – the governor, the legislature and the comptroller.

In addition to customized intervention approaches to distressed cities – which could violate the constitutions of states that disallow special legislation – New York is also heavily involved in monitoring the fiscal position of its local governments. The state's Local Government and School Accountability (LGSA) unit of the Office of the State Comptroller operates the Fiscal Stress Monitoring System, which reviews annual financial data of local governments to determine whether each government is facing significant, moderate or probable fiscal stress. Municipalities must submit audit reports, which are reviewed and in some cases conducted by approximately 200 auditors.[33] From annual reports, budgets and audits, the LGSA creates local fiscal measures for benchmarking, trend analysis and

31 Returning to the role of other state policies in distress solutions, this action would not have been possible without particular provisions within union and employee contracts that allowed for such termination of individual employees.

32 Buffalo was an exception and did necessitate intervention proceedings. It should be noted that Buffalo is one of only four New York local governments responsible for operating its own school district.

33 These 200 employees review audit reports of school districts and other local governments as well as municipalities.

general monitoring over time and across local government types. State auditors are also deployed to work with local governments. As a result, state officials may use knowledge of community nuances in evaluating local deviations from sound fiscal indicators and state trends. Such specialization is particularly useful as state intervention becomes necessary.[34]

If a local government is identified as financially unsound, the state must pass special legislation to institute a local control board for the municipality to engage in the formal intervention process. After a local control board is created, primary authority over the struggling municipality is transferred from the comptroller's office to the governor-appointed board.

Each board, by the nature of the process, has different powers. Previous boards have overseen proposed local budgets and set personnel policy, and were granted the final authority to initiate bankruptcy proceedings.[35] That the boards have had no additional taxing authority, ability to renegotiate previous collective bargaining agreements nor authority to make unilateral budget decisions reflects the state's emphasis on local autonomy.

The boards have been particularly useful in coordinating intergovernmental solutions. For instance, the Buffalo Fiscal Stability Authority (BFSA) was established in 2003. It helped Buffalo manage its additional school district responsibility and restructured the city's pension and health insurance plans by joining the respective state-level systems. Finally, the BFSA brokered an arrangement for city parks to be managed at the county level and for 16 libraries to close. Despite the local knowledge and intergovernmental efforts, it took nearly nine years for Buffalo to exit receivership and for the BFSA to transition into an advisory role. Policy specifies that the BFSA will serve in this role until 2037, and the city may revert to full receivership if financial indicators show distress.

At the state level, New York vests its relationship with local governments and the power to intervene in elected officials – the governor, the comptroller and the legislature. This separates the state's ongoing monitoring from its intervention, and though it raises the legislative barrier to intervention by requiring the crafting and passage of legislation, it also provides public accountability and a system of checks and balances. The ability to draft city-specific solutions allows New York to address management issues, economic conditions and the impacts of the state context in different ways in each city, ideally assisting the community to long-term stability.

Ohio, like New York, faced a fiscal crisis in its largest city in the 1970s. Cleveland's default on short-term notes in 1978, which made it the first municipality to default since the Great Depression, led Ohio to develop a comprehensive policy designed to prevent and, if necessary, intervene in distressed cities (Pew Charitable Trusts, 2013; Levine, Scorsone and Justice, 2013). No municipality has defaulted since Cleveland, but Toledo, East Cleveland and other municipalities have entered fiscal emergency status, particularly once the Great Recession exacerbated declining revenue bases and expenditure pressures.

Ohio's Local Government Services Division, located in the state auditor's office, is responsible for training local officials and auditing local budgets. Chapter 118 of the state code,[36] which deals with local fiscal emergencies, grants the Local Government Services Division (the auditor) responsibility for categorizing distressed communities for fiscal caution, fiscal watch or fiscal emergency. The categorization system signals to local officials, bondholders and other stakeholders the extent of the local government's fiscal stress and the ease of financial recovery anticipated. It serves as a useful continuum of distress, recognizing that failing to pass one indicator of financial soundness may not require the same actions as a community failing multiple triggers. Each category has an increasing level of oversight (i.e., requirements for audit depth and financial plan proposals). Once fiscal emergency is declared, an advisory board is created.

Under all three distress categories, local governments are required to submit recovery plans to the Local Government Services Division. If a local government is not compliant with its recovery plan, the only penalty is movement to a higher designation of fiscal distress. It is not until a municipality reaches the fiscal emergency status that penalties are imposed.

As part of the fiscal emergency proceedings, municipal officials must submit a recovery plan to the recovery board for approval. If a plan is not submitted or the local government fails to adhere to a plan, the Office of Budget and Management is supposed to suspend all state funding to that municipality,[37] though this penalty has never been fully enforced.

34 Ultimately, any distressed community implements solutions that are specific to its condition. A universal policy prescription is to reduce expenditures. However, no universal prescription can be made on what account specifically should be limited and in what way. Knowledge of exact inefficiencies, redundancies, slack and so forth is necessary to act. If outside agents are to advise on such actions, their already having some knowledge of the particulars of the city will allow for more expedient and implementable recommendations.

35 Control boards are not granted this authority for New York City.

36 The other elements comprising the law became effective, were revised or added in 1996, 1999, 2001 and 2002 – http://codes.ohio.gov/orc/118 (pdf). The state's approach is consistent with the autonomy allowed Ohio's local governments. Section 118.02 (B) of the state code states that, "[t]he intention...is to enact procedures, provide powers, and impose restrictions ...while leaving principal responsibility for the conduct of the affairs...in the charge of its duly elected officials." The effort to maintain local autonomy is demonstrated by the fact that the review process of the Local Government Services Division is initiated by request of local officials as well as at the suggestion of auditors.

37 Although individuals receiving direct state welfare within the community's borders continue to do so.

Ohio, like other states, struggles with assisting communities to achieve permanent fiscal stability. The city of East Cleveland was under fiscal emergency for 18 years. Exiting the process failed to mark long-term sustainable success – East Cleveland was once again placed under fiscal emergency. In late 2014, it was considering entering into bankruptcy proceedings,[38] and the city's mayor filed a petition seeking a merger with the city of Cleveland in the summer of 2015.[39]

Ohio, like Michigan, illustrates the issues that arise when a state's solution (intervention policy) does not match the causes of distress (context). Local officials retain control of decision making and the plan to resolve distress, but they and the state agency responsible for intervention lack the authority or resources to address the root causes of distress or to circumvent the pressures that the mix of state policies adds to local fiscal policymaking processes.

38 http://www.morningjournal.com/general-news/20141226/east-cleveland-considers-bankruptcy.

39 http://www.cleveland.com/cityhall/index.ssf/2015/07/east_clevelandmayor_gary_nort.html.

Section 3: Conclusions and Recommendations

In the previous sections we identified the ways that broad state policies limit or enhance the local governing options and the ways that states with intervention policies match their approach to local financial distress with the reality of city operating environments. Here we conclude our analysis with conclusions and practical recommendations to assist the C.S. Mott Foundation, state and local officials, and Michigan residents in identifying a more effective approach to local fiscal crises.

(1) Conclusions

There is no single model policy for state intervention in distressed cities or for prevention of fiscal distress. Changing Michigan's fiscal intervention law to replicate that of another state would likely provide little improvement for Flint or other cities facing fiscal crises. There is no "best practice" for state intervention in cities. What Michigan can learn from other states and our research is that removing and repairing mismanagement addresses only one cause of fiscal distress. Bringing a structurally imbalanced budget back into balance is an important step to assist cities like Flint, but a policy that does not address a state's unique system of revenue, tax and expenditures, and labor policies may not help cities truly escape financial trouble over the long term. States must decide which legal and political tradeoffs they are willing to make to support city fiscal health. Michigan must also recognize that, in comparison with similar states, it provides a particularly difficult environment for its cities.

Municipal fiscal distress is not just a local problem. State policy choices set the boundaries for local action and the conditions under which cities receive assistance. It is not surprising that these conclusions do not point to simple solutions, executable at the local level. Changing any one part of the state context is politically challenging, and it would be impractical to recommend major policy overhauls of Proposal A, the Headlee Amendment, collective bargaining rules and state revenue sharing. Ideally, Michigan would adopt a more balanced approach to its local governments' fiscal needs, but we are aware that this is unlikely in the short term because of both political will and the high barriers to changing constitutionally enshrined rules. Instead, we offer recommendations that balance improvements that would better support cities in fiscal distress with political feasibility.

(2) Recommendations

Create a state agency that coordinates services to local governments and offers technical support and fiscal monitoring. Establishing a formal place within state government that is responsible for ongoing, cooperative work with local governments on fiscal stability and other issues would help create a partnership and culture of trust between the state and its municipalities. The Department of Treasury does provide some of these services on an individual basis via the Office of Fiscal Responsibility (OFR), but the OFR does not have the resources necessary to provide a comprehensive system of support to all of the state's local governments.

It is important that whatever agency is created be empowered with human resources to sufficiently provide service; financial resources, separate from the state's revenue sharing to local governments, to offer special assistance where needed to communities facing challenges or distress; and a position within the state departmental structure that allows it to be taken seriously when recommending policy and working with other departments to assist local governments. The examples of offices in the other states in our study may provide elements of the agency's design, but the office should be built with Michigan's particular context and culture in mind. It may be appropriate to expand the OFR in its current position, but moving the office to another department, establishing it as a stand-alone agency and other potential structures should be evaluated as well.

Raise awareness among citizens and state decision makers that the causes of fiscal distress are not solely at the local level. Flint is an example that can illustrate this point as the C.S. Mott Foundation and city leaders communicate with the public and state officials. As the city emerges from state control, the budget is balanced for the short term, and the transition advisory board is in place to monitor management and compliance with the plan. Yet revenue projections show the city likely facing a structural deficit in the next five years with little available to cut from the budget. State control has reasonably removed management problems as the cause of deficits, yet the city's fiscal health remains precarious. A focused communications effort highlighting the combined effects of Michigan's expenditure, revenue and labor policies could help broaden the discussion of fiscal distress in the state and create awareness that this is more than a local problem. Rather than being the exception, Flint may be the harbinger of what is to come for Michigan's local governments without changes at the state level.

Appendix

Section 1

The following table lists the key concepts that make up core elements of the state context for local fiscal distress, our empirical measure of the concepts, and the data we brought to bear to generate these measures.

Concept	Measure(s) – by Figure/Table	Data
Revenue Pressures		
State Aid Environment	**Figure 1**: Annual average of per capita state aid in real 2005 dollars to three (population) classes of U.S. cities: (1) population > 100,000; (2) population between 25,000 and 100,000; and population between 5,000 and 25,000. Years: 1970 to 2005. **Figure 2**: Annual average of per capita state aid in real 2005 dollars allocated by each of the 48 contiguous states for the years 1970 and 2005.	U.S. Census Bureau. Annual Survey of State and Local Government Finances and Census of Governments (1970-2005). See: http://www.census.gov/govs/classification/
Tax and Expenditure Limits	**Figure 3**: Annual count of state adoptions of five types of TELs, 1970 to 2005. **Figure 4**: State TEL severity score for 1970 and 2005. Severity score indexes six key characteristics of state-imposed TELs: (1) the type of TEL; (2) if the TEL is statutory or constitutional; (3) growth restrictions; (4) method of TEL approval; (5) TEL overrides and exemptions; and (6) method of override.	Amiel, Deller, and Stallmann (2009). http://www.aae.wisc.edu/pubs/sps/pdf/stpap536.pdf
Revenue "Carrot" and Revenue "Stick"	**Figures 5 and 6 and Table 2**: Displays policy distance between state aid environment and state-imposed TEL restrictions. State aid and TEL z scores were calculated for each state year. (These standardize the relationship to the average of all states and all years and represent how many standard deviations a score is from the average.) The aid measure is per capita state aid in real 2005 dollars for cities with populations over 5,000. The TEL measure is the TEL severity score described above. These scores were then differenced (Aid_z minus TEL_z in Figure 5; TEL_z minus Aid_z for Figure 6 and Table 2) to create the distance measure. The values displayed are the average distances from 2000 through 2005. Carrot states are 1.5 standard deviations above the mean difference; stick states are 1.5 standard deviations below the mean difference.	**Aid**: U.S. Census Bureau. Annual Survey of State and Local Government Finances and Census of Governments (1970-2005). **TEL**: Amiel, Deller, and Stallmann (2009).

Expenditure Pressures		
Collective Bargaining Environment and Labor Costs	**Table 1:** Five-category classification scheme, ranging from Very Weak to Very Strong. The collective bargaining strength of local police, local fire fighters, teachers, and "other" local employees – the four main functional areas of local public employment – are measured along three dimensions: (1) collective bargaining rights for local public employees, ranging from "Duty to Bargain" to "Collective Bargaining Is Prohibited"; (2) Union Security Provisions via the existence of a Right-to-Work Law for local public employees; and (3) Strike Policy Provisions. **Figure 6 and Table 2:** Public sector employee union membership as a percent of all public sector employees in state, 2000-2014. Z scores were calculated to standardize the relationship to the average of all states over this 15-year period. The score represents how many standard deviations a state's percentage is from the average state.	**Collective Bargaining Environment:** NBER Public Sector Collective Bargaining Law Data Set. Valletta and Freeman - original (1988); Rueben - update (2000). See: http://www.nber.org/publaw/ **Labor Costs:** Hirsch and Macpherson. (2003) Union Membership and Coverage Database from the Current Population Survey: Note. See: http://unionstats.gsu.edu/CPS%20Documentation.htm

Section 2

We invited three types of individuals to participate in the Workshop on State Intervention in Distressed Communities held at Detroit's Greektown Hotel and Casino October 16-17, 2014: individuals who were formally involved in various elements of state intervention policy design and implementation, those involved in local fiscal distress and bankruptcy from a legal standpoint, and policy experts and researchers. The following table classifies the participants.

State/Affiliate	No. of Participants
Michigan	4
New Jersey	1
New York	1
Ohio	1
Pennsylvania	1
Rhode Island	1
Attorney's, private practice	2
Unaffiliated policy experts	3
C. S. Mott Program officers	2
Local finance professionals	2
MSU researchers	2
MSU research team	5

The following table provides a detailed agenda of the workshop proceedings:

Session Title	Outline
Setting the Context	Surveying the causes and consequences of local fiscal distress, with particular attention to the relatively weak position of local governments in the U.S. federal system: • Review of structural, economic, fiscal, intergovernmental, institutional, and political causes • Local governments' response to fiscal distress • State policies/institutions' role in local fiscal capacity • State policies designed to help local governments meet their financial problems
State Intervention in Distressed Communities: The View From Michigan	An in-depth view of Michigan's approach to local fiscal distress through the eyes of those closely involved in the policy's design, implementation, and evolution
A Deep Dive Into State Intervention: Policies on Paper v. Policies in Practice	A structured dialogue about the participants' experiences with key elements of state intervention. • *Stage 1: Getting in* Where and when is pre-intervention support offered? How are distressed localities identified? When and how do local governments enter the program? How are decision criteria applied? • *Stage 2: Developing a plan* Who carries out the intervention? What actions may these actors take? What are the specific goals of intervention? What are the chief barriers to effective implementation? • *Stage 3: Exit strategy* How does a local government exit the program? Are triggers well specified? When, if ever, are medium- and long-term fiscal, economic, or service-based objectives discussed?
Detroit, Michigan – Ground Zero for the Changing Fiscal Relations Between State and Local Governments	A detailed view of the City of Detroit's ongoing intervention and bankruptcy processes

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MICHIGAN STATE UNIVERSITY | Extension

The Flint Fiscal Playbook:

An Assessment of the Emergency Manager Years (2011-2015)[1]

MSU Extension White Paper

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I. Introduction

The city of Flint, Michigan, has experienced a variety of fiscal difficulties since the early 2000s. In 2002, an emergency financial manager was appointed for the city under Public Act 72 of 1990 and was in place until 2004. Unfortunately, the reforms and changes made at that time only lasted for a few years before fiscal problems re-emerged in Flint (see MSU Extension white paper *Long-Term Crisis and Systemic Failure: Taking the Fiscal Stress of America's Older Cities Seriously*). By 2011, a second wave of emergency managers would be named to run the city under two newer laws (including PA 4 of 2011 and PA 436 of 2012). These emergency managers were removed from the city, restoring home rule in April 2015. The key question: Can Flint avoid the problems that have plagued it for the last 15 years without being placed under state control for the third time? Before answering that question, we must understand the reforms and changes that have occurred in the city since a fiscal emergency was declared in 2011.

The objectives of this case study of Flint, Michigan, are to understand the economic and fiscal trends that led to the state takeover via an emergency financial manager in November 2011 and to analyze the impact of the emergency manager policy on the city's fiscal health. It updates trends presented in a previous case study on fiscal stress in Flint,[3] provides additional detail regarding the policy changes that emergency managers have made, and examines the impacts of those changes.

[3] Eric Scorsone and Nicolette Bateson, *Long-Term Crisis and Systemic Failure: Taking the Fiscal Stress of America's Older Cities Seriously* (Michigan State University Extension, September 2011), http://expeng.anr.msu.edu/uploads/files/42/MSUE_FlintCaseStudy-2011%202.pdf

II. Historical Overview of Flint, Michigan

Examining the history of Flint can provide an understanding of the evolution of the chronic fiscal stress that has plagued the city, as well as its significance in the geographic region. The city of Flint is located in Genesee County, about 60 miles northwest of Detroit. The Flint River provided the natural resources to create successful commerce in the 1800s for fur trading, the lumber industry, the manufacture of carriages, and eventually the production of horseless carriages that led to the birth of the automotive industry. The entrepreneurial spirit and wealth in the area contributed to the founding of the Buick Motor Company in 1903, followed by the incorporation of General Motors (GM) in 1908. With the rapid growth of the automotive industry came concerns for employee working conditions. This led to the first automotive sit-down strike in 1936-1937 in Flint. After 44 days, the strike ended with the first union agreement with GM, which gave rise to the United Auto Workers (UAW). The continued improvements in working conditions and wages enabled Flint to become an ideal place to live and work, and the increase in wealth fostered a well-respected educational system. Early automotive industry leaders such as Charles Stewart Mott and William C. Durant provided the vision to create a strong cultural environment. Flint prospered for most of the years from the 1930s into the early 1970s. Like many industrial cities, however, the economic vibrancy ebbed and flowed with the U.S. automotive industry. In 1978, GM employed over 80,000 Flint-area residents. By 1990, the number of employees decreased to 23,000, dipping to as low as 8,000 in 2006.

City Government

The City of Flint was incorporated in 1855. The present charter, adopted in 1974, provides for a strong mayor-council form of government. The city council consists of nine members, each representing a ward and serving four-year terms. The mayor, also elected to a four-year term, is the chief executive officer. The mayor appoints a city administrator, as well as principal officials and department heads.

The City of Flint provides a full range of services across 32.8 square miles, including: police and fire protection, construction and maintenance of streets and infrastructure, recreational and cultural activities, water and sewer services, and sanitation and garbage pickup services. In addition, the City of Flint is financially accountable for four other entities:

- City of Flint Board of Hospital Managers (manages and operates the Hurley Medical Center providing inpatient, outpatient, and emergency care)
- Flint Downtown Development Authority (promotes rehabilitation of the downtown area)

- City of Flint Economic Development Corporation (provides financing and development opportunities for businesses located in the City)
- Flint Area Enterprise Community[4] (coordinates the federal enterprise and helps to leverage the resources for the zone)

Flint is the county seat for Genesee County. Like most counties in Michigan, the county government provides court services, human services, record keeping, and community enrichment for its residents. The county and its elected officials also serve as regional problem solvers.

Demographics

The city of Flint's population has changed drastically over the past 50 years. This section explores the historical changes that have occurred throughout the city and region. These trends are essential for explaining the path that has led to Flint's fiscal distress and may point to the path that the city may need to follow in order to build a sustainable future.

Population

According to data collected by the U.S. Census Bureau, the population of the city of Flint has declined over five consecutive decades. There were 48% fewer residents in the city in 2010 compared to 1960 (**Exhibit II-1**). In 2012, there were 100,515[5] residents in the city; in 2013 the city's estimated population further declined to 99,758[6].

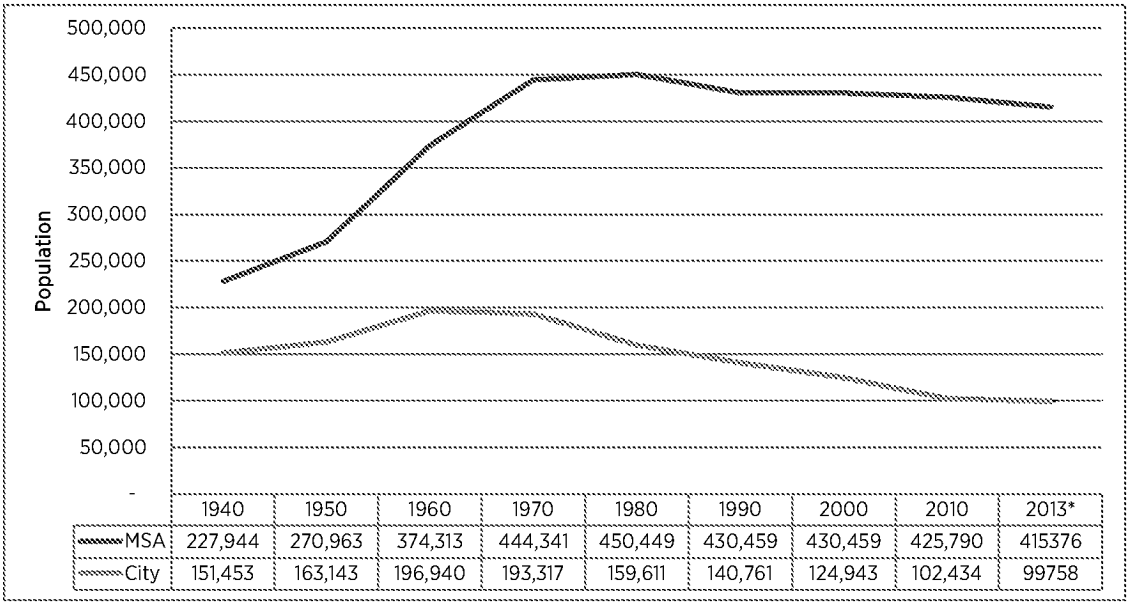
In contrast, the population trends in the Flint metropolitan statistical area (MSA), defined by Genesee County boundaries, indicate enormous growth through the 1970s with slight declines over the following three decades. This indicates that the Flint metropolitan statistical area has experienced significant decentralization.

4 The Flint Area Enterprise Community (FAEC) was consolidated with the Economic Development Corporation (EDC) (with the EDC Board of Directors exercising authority and control of the FAEC) by an executive order of the city's emergency manager effective August 8, 2012.

5 With a margin of error of +/- 27 people.

6 2013 American Community Survey 1-year estimate, http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_13_1YR_S0101&prodType=table

Exhibit II-1 Flint Metropolitan Statistical Area (MSA) and Flint City Population
Data source: U. S. Census Bureau (Decennial Census, American Community Survey*)

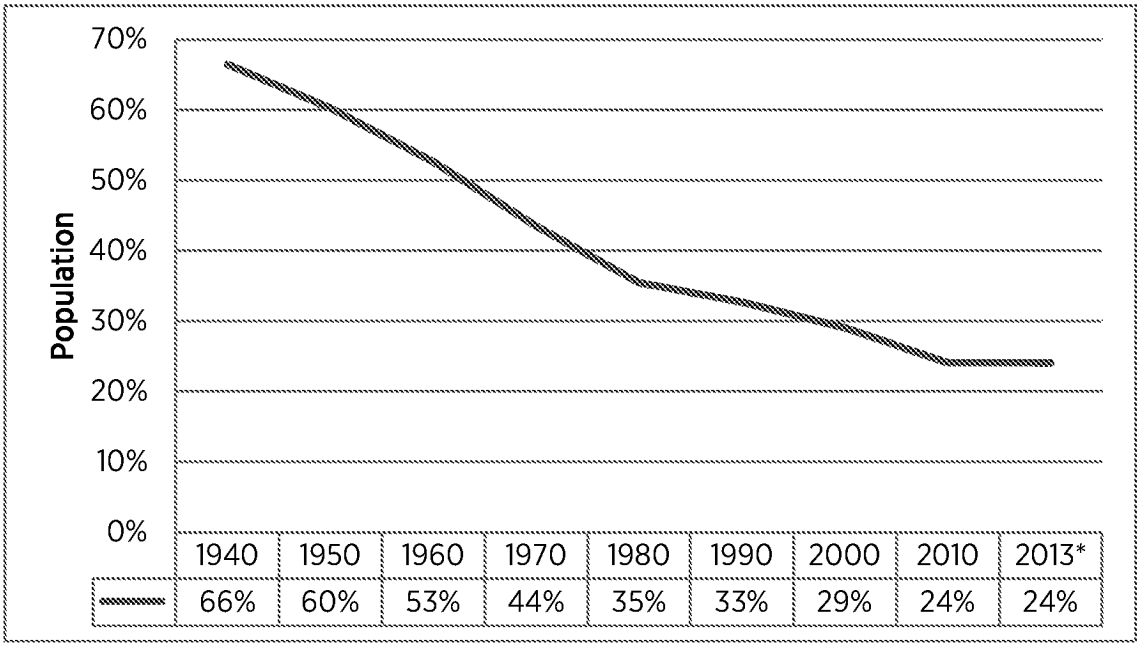


	1940	1950	1960	1970	1980	1990	2000	2010	2013*
MSA	227,944	270,963	374,313	444,341	450,449	430,459	430,459	425,790	415376
City	151,453	163,143	196,940	193,317	159,611	140,761	124,943	102,434	99758

Exhibit II-2 more clearly illustrates this decentralization. In 1940, the city of Flint comprised 66% of the population of the Flint MSA population compared to only 24% in 2013. The estimates from the 2013 American Community Survey indicate that the net migration into the suburbs may be starting to stabilize, though Flint's population has continued to decline in recent years.

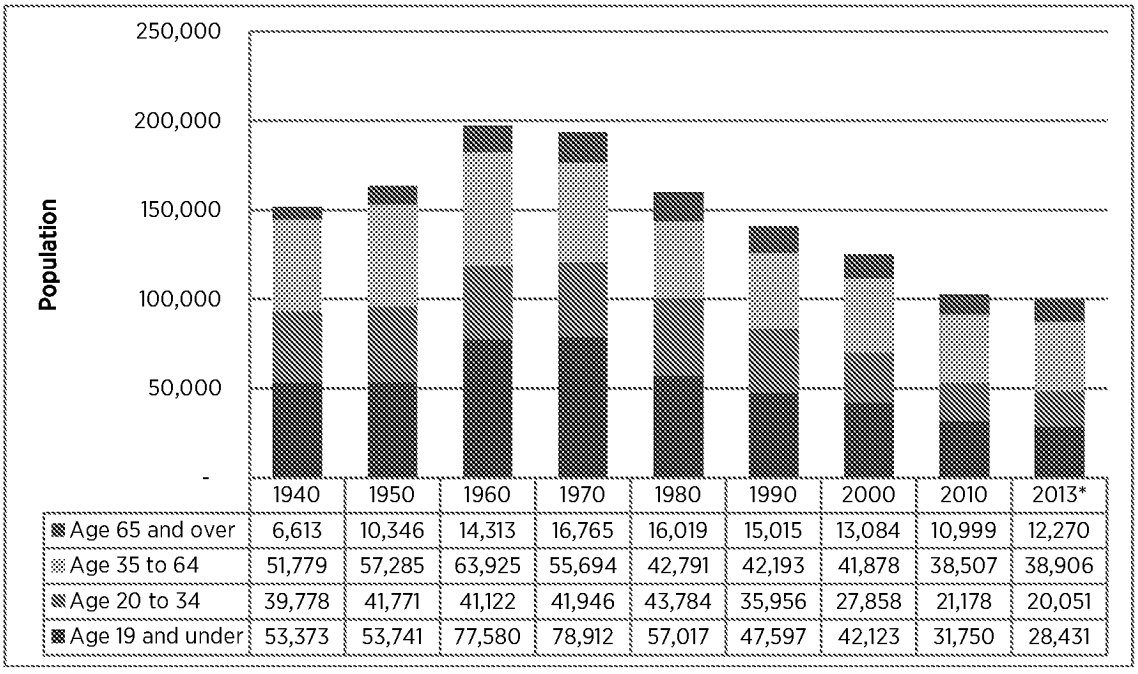
Population Characteristics

Flint's population has been aging over the past several decades. **Exhibit II-3** shows a breakdown of the number of people by age group in Flint from 1940 through 2013.



	1940	1950	1960	1970	1980	1990	2000	2010	2013*
	66%	60%	53%	44%	35%	33%	29%	24%	24%

Exhibit II-2 Flint City Population as a Percent of MSA
Data source: U. S. Census Bureau (Decennial Census, American Community Survey*)



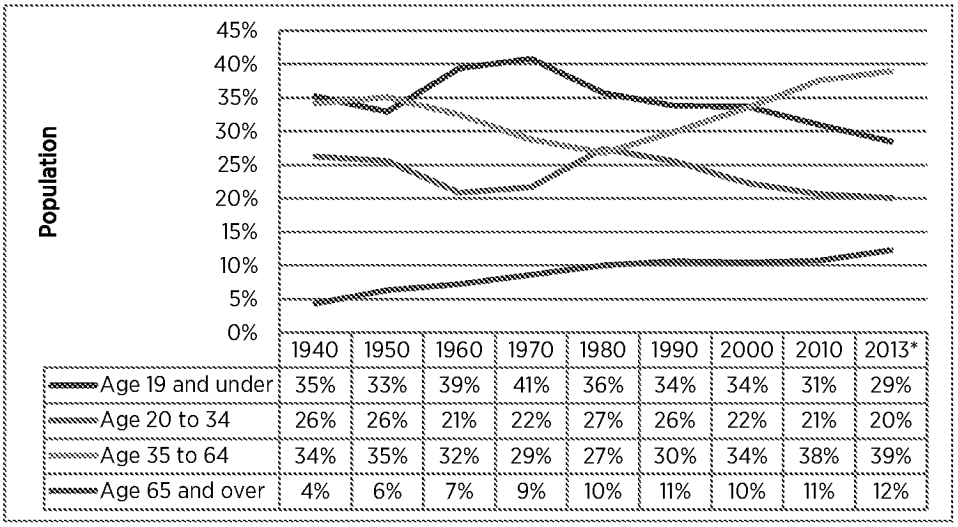
	1940	1950	1960	1970	1980	1990	2000	2010	2013*
Age 65 and over	6,613	10,346	14,313	16,765	16,019	15,015	13,084	10,999	12,270
Age 35 to 64	51,779	57,285	63,925	55,694	42,791	42,193	41,878	38,507	38,906
Age 20 to 34	39,778	41,771	41,122	41,946	43,784	35,956	27,858	21,178	20,051
Age 19 and under	53,373	53,741	77,580	78,912	57,017	47,597	42,123	31,750	28,431

Exhibit II-3 Age of Flint Population
Data source: U. S. Census Bureau (Decennial Census, 2013 American Community Survey*)

To see this more clearly, **Exhibit II-4** shows the relative share of each age category in the total population for each year. The share of population aged 19 years old and under generally increased from 1940 to 1970 with the Baby Boom and has since continually declined from its peak of 41% in 1970, to only 29% of the population in 2013. The share of individuals aged 20 to 34 has fluctuated over the last seven decades, but has been on a general decline since 1980. The share of population aged 35 to 64 years old experienced a period of contraction from 1950 to 1980 followed by a continuous period of growth since then, likely due to the aging of the Baby Boomer population. Finally, during the past seven decades, there has been a fairly steady expansion of residents aged 65 and over, probably due to increased life expectancy. This demographic is expected to continue to expand with the aging of the Baby Boomer population.

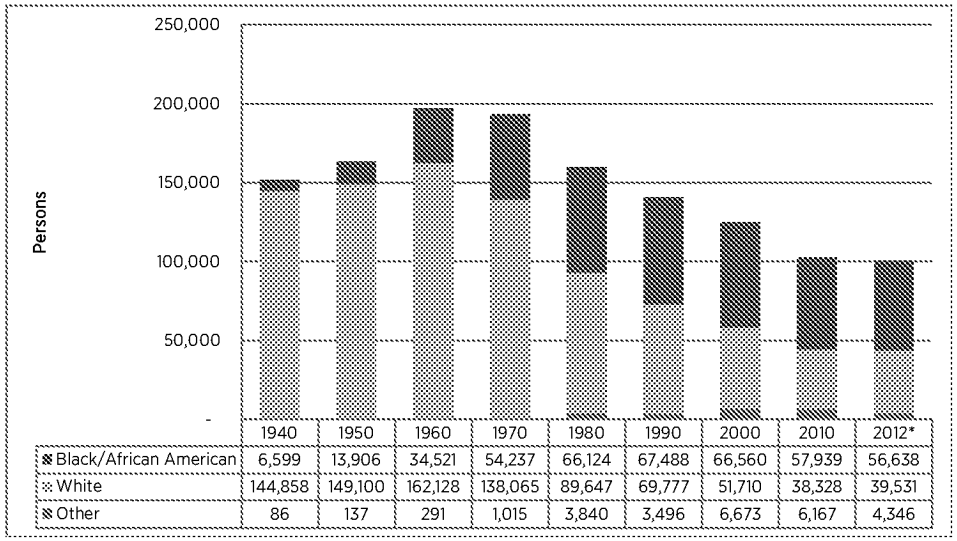
The racial distribution of the city has also changed since the 1940s, as shown in **Exhibit II-5**. The city has become more diverse with a population that is 39% white and 56% black/African-American in 2012 compared to 95.6% white and 4% black/African-American in 1940. The share of the population in the "Other" category, which includes both individuals of other races and multi-racial individuals, has also grown from 0.1% in 1940 to 6% in 2010.

Exhibit II-4 Flint Age by Percentage of Population
Data source: U. S. Census Bureau (Decennial Census, 2013 American Community Survey*)



	1940	1950	1960	1970	1980	1990	2000	2010	2013*
Age 19 and under	35%	33%	39%	41%	36%	34%	34%	31%	29%
Age 20 to 34	26%	26%	21%	22%	27%	26%	22%	21%	20%
Age 35 to 64	34%	35%	32%	29%	27%	30%	34%	38%	39%
Age 65 and over	4%	6%	7%	9%	10%	11%	10%	11%	12%

Exhibit II-5 Flint Population by Race
Data source: U. S. Census Bureau (Decennial Census, 2012 American Community Survey*)

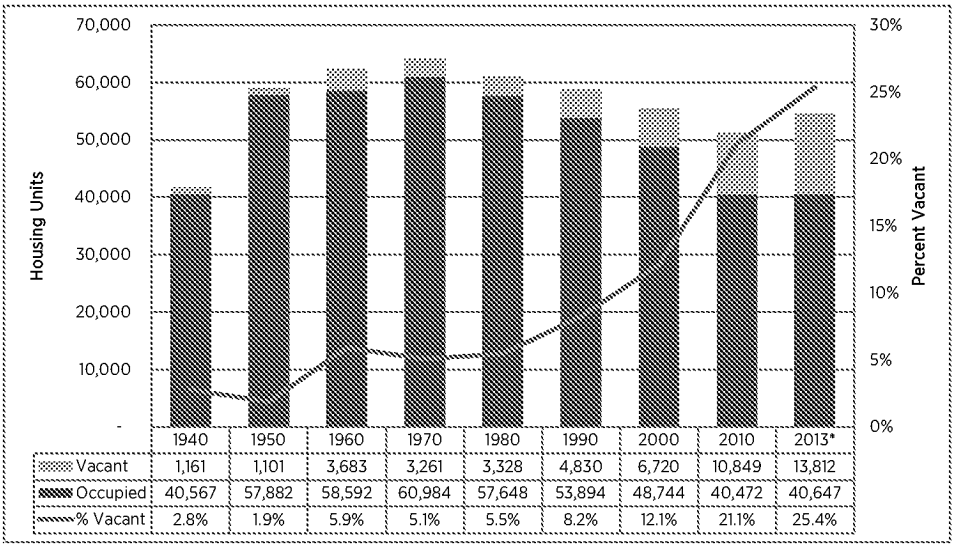


	1940	1950	1960	1970	1980	1990	2000	2010	2012*
Black/African American	6,599	13,906	34,521	54,237	66,124	67,488	66,560	57,939	56,638
White	144,858	149,100	162,128	138,065	89,647	69,777	51,710	38,328	39,531
Other	86	137	291	1,015	3,840	3,496	6,673	6,167	4,346

Housing Trends

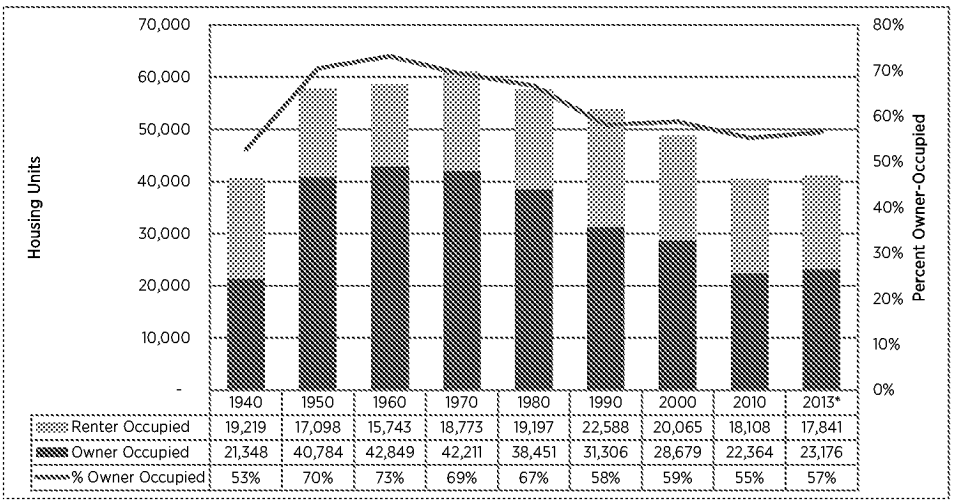
Housing trends also help tell the story of a city that is facing fiscal stress. The rate of housing vacancy increased from 5.1% in 1970 to 25.4% in 2013 (**Exhibit II-6**). The rate of change in vacancy was highest between 2000 and 2013 with a 13 percentage-point increase. This coincides with Michigan's decade of economic decline. The potential impact of increased housing vacancies on fiscal health include not only decline in property values and associated property tax revenues, but also increased municipal maintenance, police patrol, fire protection, and other costs to address health and human safety concerns.[1]

Home ownership is also associated with the strength of a community's property values. In 2013, owner-occupied housing only comprised 57% of occupied housing units compared to 73% of units at its peak over the last seven decades in 1960. However, the rate of owner-occupied housing in 2013 is a slight increase from its value in 2010, perhaps a small sign of recovery for the city of Flint (**Exhibit II-7**).



	1940	1950	1960	1970	1980	1990	2000	2010	2013*
Vacant	1,161	1,101	3,683	3,261	3,328	4,830	6,720	10,849	13,812
Occupied	40,567	57,882	58,592	60,984	57,648	53,894	48,744	40,472	40,647
% Vacant	2.8%	1.9%	5.9%	5.1%	5.5%	8.2%	12.1%	21.1%	25.4%

Exhibit II-6 Flint Vacant vs. Occupied Housing Units
Data source: U. S. Census Bureau (Decennial Census, 2013 American Community Survey*)



	1940	1950	1960	1970	1980	1990	2000	2010	2013*
Renter Occupied	19,219	17,098	15,743	18,773	19,197	22,588	20,065	18,108	17,841
Owner Occupied	21,348	40,784	42,849	42,211	38,451	31,306	28,679	22,364	23,176
% Owner Occupied	53%	70%	73%	69%	67%	58%	59%	55%	57%

Exhibit II-7 Flint Renter-Occupied vs. Owner-Occupied Housing Units
Data source: U. S. Census Bureau (Decennial Census, 2012 American Community Survey*)

Given these trends, it is no surprise that property values in the Flint area have declined drastically since the Great Recession as shown in **Exhibit II-8**. The state equalized value (SEV) and the taxable value (TV) have almost converged as of 2015. This could be attributed to a combination of falling property values and the "pop-up" effect of the transfer of ownership of property due to Proposal A (which will be discussed in more detail in section IV). Since local governments tend to rely heavily on property taxes for revenue, this is another indicator of the declining tax base of the city.

Economy

The trends in the jobless rate in the city of Flint and Flint MSA tend to follow the same pattern as that of Michigan as a whole (**Exhibit II-9**). The jobless rate rose during the 2001 recession and did not see sustained recovery until after the Great Recession ended in 2009; however, absolute unemployment rates tend to be higher in the city compared to the MSA and the state as a whole. While there has been a drop in unemployment in the city of Flint since the end of the Great Recession, it is still higher (14% in 2014) than pre-2001 recession levels (8% in 2000).

Exhibit II-8 State Equalized Value (SEV) and Taxable Value (TV) – Flint
Data source: Genesee County Equalization Department

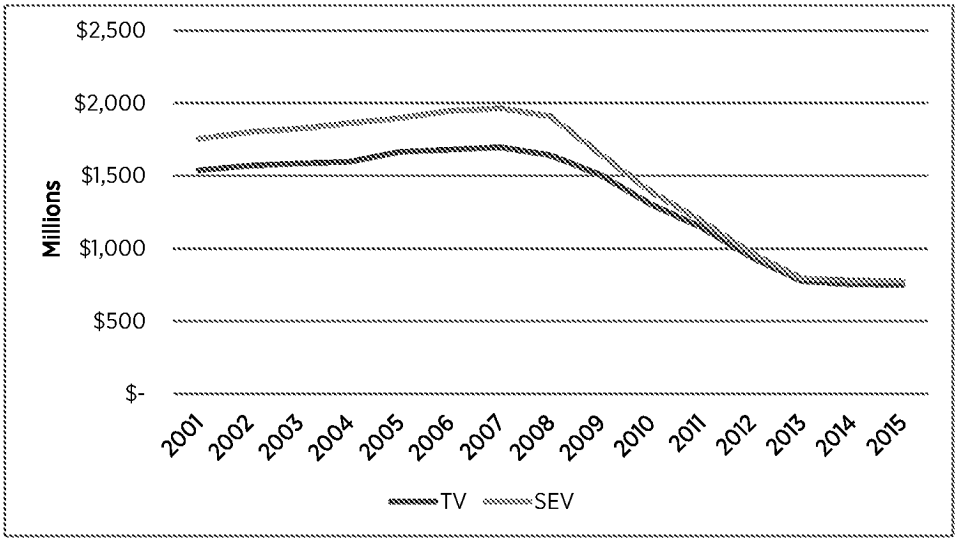
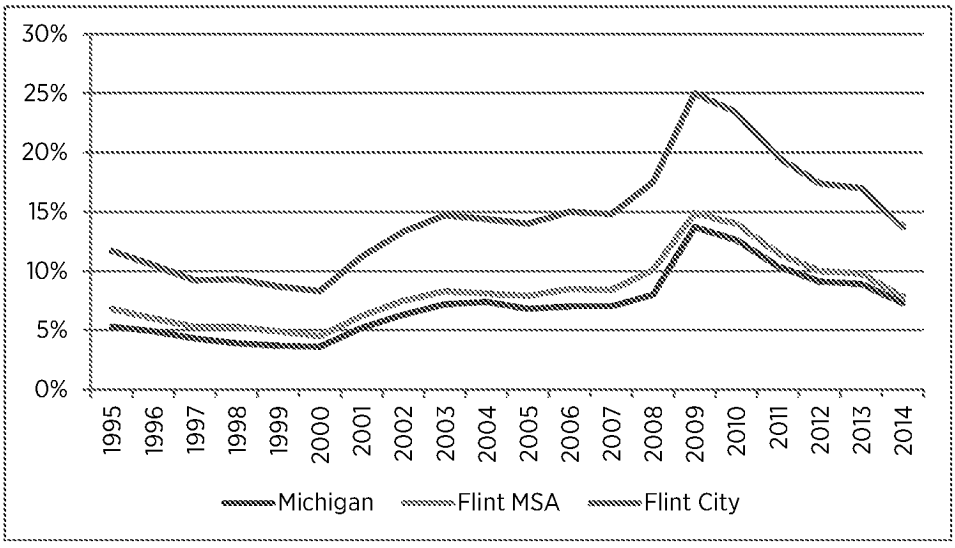


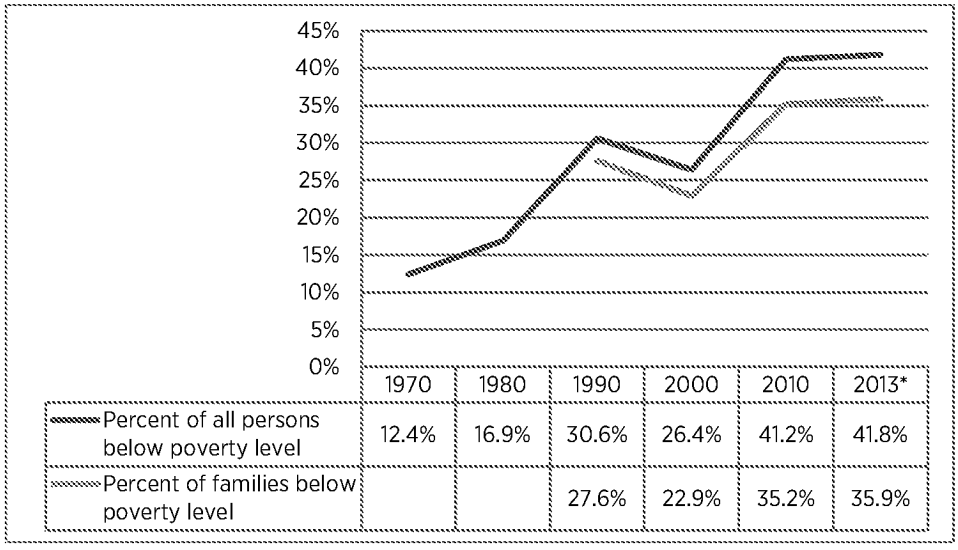
Exhibit II-9 Flint Jobless Rate
Data source: Michigan Department of Technology, Management & Budget



The city of Flint's audit reports disclosed the city's personal income statistics as shown in **Exhibit II-10**. While a slight recovery occurred after the 2001 recession, in general, personal income has been on a long-term decline since 1996, indicating a diminishing tax base. A decline in personal income not only indicates a lower capacity for property tax and income tax revenues, but also suggests a relation to a lower demand for business-type services. If this demand is fairly elastic with respect to personal income, this would lead to a reduction in city income from public recreation programs, parking fees, and similar sources. The decline in personal income began leveling off in 2009, suggesting signs of stabilization following Michigan's decade in recession.

While the economic climate in the 1990s and 2000s worsened the city of Flint's employment and income trends, many decades of above average poverty rates signal long-term fiscal stress. **Exhibit II-11** shows the general growth in the share of total population living below the poverty level, which peaked at 41.2% in 2010. The share of families below the poverty level follows the population trend. Poverty rates reported by the 2012 American Community Survey indicate

Exhibit II-10 Flint Personal Income
Data source: City of Flint Comprehensive Annual Financial Reports



	1970	1980	1990	2000	2010	2013*
Percent of all persons below poverty level	12.4%	16.9%	30.6%	26.4%	41.2%	41.8%
Percent of families below poverty level			27.6%	22.9%	35.2%	35.9%

Exhibit II-11 Population of Flint Below Poverty Level
Data source: U.S. Census Bureau (Decennial Census, 2012 American Community Survey*)

a possible improvement since 2010, which also coincides with the improvements in unemployment and income, discussed above. If the unemployment and income trends are indeed indicative of economic recovery, then these improvements in poverty statistics are possibly explained by a countercyclical relationship between poverty and the business cycle.

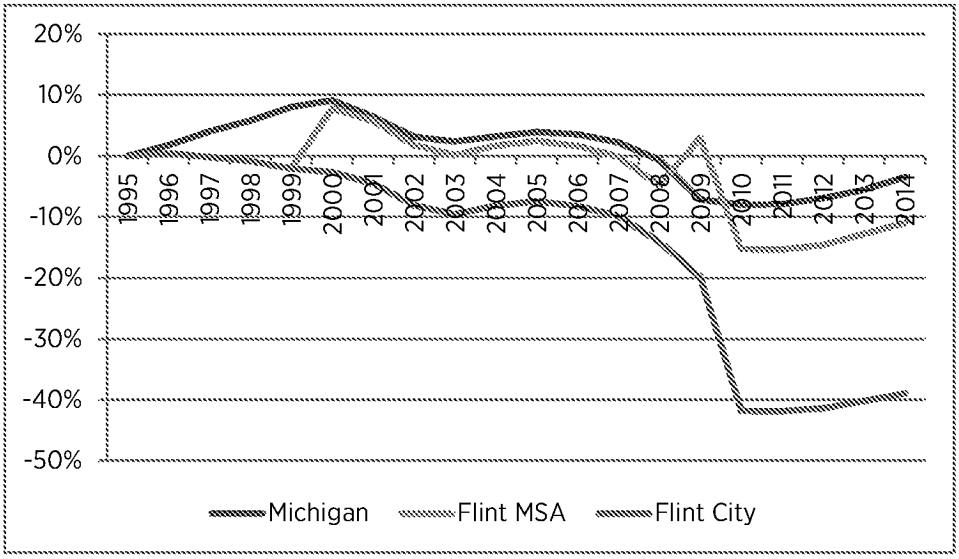
Exhibit II-12 depicts the cumulative change in the number of nonfarm jobs in the city of Flint, the Flint MSA, and Michigan as a whole. While the state overall saw a period of growth in employment in the mid-1990s, employment in the city of Flint and the Flint MSA began to decline in 1996. According to annual estimates from the Bureau of Labor Statistics (BLS) for the Flint MSA, the decline in manufacturing was the driving force of unemployment. Employment in this sector consistently fell between 1995 and 2008, from 48,200 jobs to 9,500.[7] Over this same period, the share of manufacturing jobs (of total nonfarm employment) dropped from 27% to 9%. This trend is likely due to the region's reliance on the domestic auto industry and the declines in the Big Three's market share that began in the 1980s and led to plant closures in the 1990s and early 2000s. According to Genesee County's audit reports, the county's largest employer in FY1997 was GM with 40,944 employees. In FY2009, GM still held its rank as the county's largest employer, but with only 3,417 employees in the county.

While the Flint MSA saw a boost in jobs in 2000, the city experienced a long-term decline in employment over the period shown, with 39% fewer jobs in 2014 than existed in 1995. The share of employment in the city compared to the MSA as a whole also fell in the same time period; as of 2014, employees in Flint represent about 18% of those in the Flint MSA compared to 26% in 1995.

The trends in **Exhibit II-12** indicate that employment started to recover slightly in 2010. This has been primarily driven by the private sector, namely the manufacturing, professional and business services, and trade, transportation and utilities sub-sectors. Public sector employment in the region has followed national trends as it continues to decline. The overall rise in employment in Flint along with the unemployment, income, and poverty trends support the story that the city is experiencing signs of economic recovery.

[7] Not seasonally adjusted

Exhibit II-12 Cumulative Change in Employment in Flint and in Michigan
Data source: Michigan Department of Technology, Management & Budget



The industries representing the city's 10 largest employers have diversified over the past decade. Most notable is the increased prevalence of higher education and employment services (**Exhibit II-13**). During periods of economic decline, enrollment in higher education often increases as individuals seek to expand their skill sets or pursue career changes. Demand for job placement services also increases. Another trend is the increasing concentration of employees in the top 10 employers. The 10 largest employers represented about 65% of the total number of employees in 2014 compared to only 59% of the total number of employees in 2003. This indicates that the impact of smaller firms in the city has diminished over this period. Larger firms tend to have more organizational slack,[ii] which can act as a buffer during economic downturns. Smaller firms that do not have such slack are likely more vulnerable to poor economic environments. Depending on the nature of recovery, employment in small firms could diminish even further during future recessions.

Exhibit II-14 illustrates the diversification of employment in the city of Flint by comparing the share of employees in each industry in 2003 and 2014. The relative share of both automotive employment and public sector employment dropped more significantly than that of healthcare employment.

Principal Employer Industry	FY2003	FY2014
Automotive	23,616	13,975
Federal, state and local government	13,037	6,103
Healthcare	9,569	5,963
Higher education	-	5,656
Employment services	-	1,214
Employees working for ten largest employers	46,222	32,911
Total employees working in City	78,553	51,128

Exhibit II-13 Employment in Flint's 10 Largest Employers by Industry
Data source: City of Flint Comprehensive Annual Financial Reports

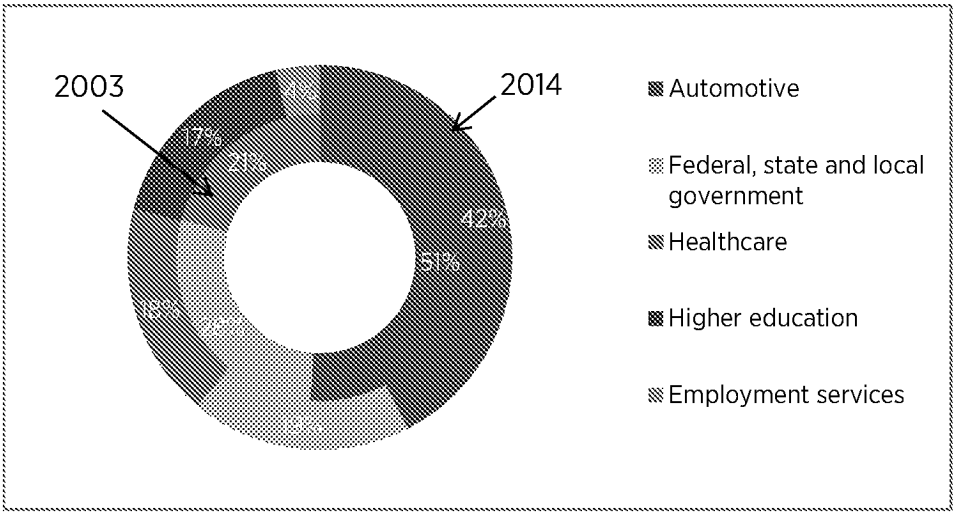


Exhibit II-14 Flint's 10 Largest Employers by Industry
Data source: City of Flint Comprehensive Annual Financial Reports

The city has concentrated efforts to encourage new development. Although most new projects include property that is either tax exempt or requires a property tax incentive, they have brought employees to the city, which increases the nonresident income tax revenue. Recent redevelopment efforts have focused on marketing the 452-acre vacant "Buick City" property. The Environmental Protection Agency has committed up to $7 million for Phase I clean-up of that property.[iii] The total commitment to Buick City is approximately $30 million. Funding for the remediation is from the Revitalizing Auto Communities Environmental Response (RACER) Trust that was created through the GM bankruptcy. The soil remediation project began in early 2011. According to the March 2014 update, corrective measures are being implemented in the Southend site. A corrective measures proposal for the Northend cleanup is being reviewed and will be presented to the public in summer 2014.[iv]

In November 2013, the American Cast Iron Pipe Company announced plans to construct a plant on the Buick City property, creating 50 to 60 manufacturing jobs for Flint. The plant opened in December 2014.

Flint's air transportation needs are serviced by nearby Bishop International Airport. In January 2011, the Bishop Airport Board approved the bid process for a $16.8 million expansion.[v] This project added 47,000 square feet of terminal space, four gates and doubled the width of the corridor linking two sections of the airport. The expansion was completed in November 2012, adding 350 jobs and increasing the number of passengers at Flint's Bishop International Airport[vi]. Several highways meet road transportation needs.

III. Flint Under Emergency Financial Management

Path to Receivership

Due to its decreasing population, employment, and tax revenues, the Flint city government has been under considerable fiscal stress in recent years. In the early 2000s, an emergency financial manager (EFM) was appointed for the city, and was in place until 2004; however, the city soon returned to fiscal insolvency.

The cycle of returning to a deficit position after an EFM appointment ends is not unique to Flint. Drawing on the experience of Flint and other cities that have been assigned an EFM, state policy makers drafted revisions to PA 72, which was replaced by PA 4 in 2011. After a referendum, PA 4 was repealed in 2012, then replaced by PA 436 of 2012[8].

The new law provides greater incentive and mechanisms for local governments to address budget challenges before an emergency manager (EM) is assigned. PA 436 also provides four options to struggling municipalities[9], offering alternatives to the appointment of an EM. Ultimately, however, if cities with chronic fiscal stress are suffering from structural challenges beyond their control, improved management will only be able to cure a limited number of problems.

If a city is placed in receivership under PA 436 of 2012 and an EM is appointed by the state, he or she is granted broad powers to address the struggling city's finances. This includes the authority to amend collective bargaining agreements, make personnel changes, and review and approve the city's budget.

Responding to the most recent fiscal crisis, Michigan's Treasury Department conducted a preliminary review of Flint's financial situation in August and September 2011. [vii] The review found that general fund expenditures had exceeded revenues for the preceding four years. Two years after its deficit reduction plan had been submitted to the state, the general fund deficit had more than doubled. The review also reported that departments within the municipal government had been compensating for cash shortages by borrowing from other funds. The review team determined it was uncertain whether the City of Flint would be able to fulfill its short-term financial obligations.

Due to the City of Flint's structural deficit, increasing legacy costs, and accumulating debt, the review team recommended to the governor that the city be placed under emergency financial management under Public Act 4. In November 2011, the governor of Michigan placed the City of Flint in receivership.

Michael Brown was appointed as the city's emergency financial manager effective December 1, 2011. In August 2012, Michael Brown was replaced by Edward Kurtz as emergency manager (who had served as the city's EM from 2002 to 2004). Ed Kurtz served as the city's emergency manager until July 2013, at which time Michael Brown was again appointed by the governor. Michael Brown resigned in September 2013; Darnell Earley was appointed as his replacement. In January 2015, it was announced that Jerry Ambrose, who had previously served as the city's finance and administration director, would replace Darnell Earley as emergency manager. Jerry Ambrose served as the city's EM until April 2015, when control of the city's finances was returned to the mayor and city council under the supervision of a Receivership Transition Advisory Board.

Reforms to Personnel Costs

Wages and Salaries

Significant actions were taken shortly after Michael Brown's appointment as emergency manager. Almost immediately after his appointment, the salaries, benefits, and other compensation were eliminated for the city's mayor and nine council members. The mayor's salary was later restored to 60% of his base salary with full restoration of his benefits, and the salaries of city council members were restored to $7,000 per year with no benefits. Additionally, council members were required to complete level one of the Michigan Municipal League's core courses for municipal government. Several positions were eliminated, which included the Office of the Ombudsman, the Civil Service Commission, and the respective staff assigned to these offices.

[8] Emergency financial managers were in place under Act 72; the term "emergency manager" is used in PA 4 and PA 436. There are somewhat different powers under the various acts but otherwise the concept is the same.

[9] These options include entering into a consent agreement with the state, filing for bankruptcy, agreeing to mediation, or accepting the appointment of an EM.

In an effort to reduce the city government's wage expenses by 20%[viii], significant changes were made to the collective bargaining agreements of the City of Flints's police and fire unions. Wages were reduced across the board for members of all police unions: by 1.5% for sergeants, by 2.5% for captains and lieutenants, and by 5% for officers). Salaries and wages of members of the firefighters' union were also reduced[10].

Substantial changes were also made to the city government contracts with the American Federation of State, County and Municipal Employees (AFSCME) locals 1600 and 1799, the unions representing the majority of general city government employees. Wages for Local 1600 members were reduced by 2.5%, and several changes to overtime, holiday, and leave pay were made for both unions.

With the exception of emergency overtime, the EM required that all employee overtime be approved in advance. Executive orders were also issued to put limitations on departments' spending authority, with EM approval required for purchases over $10,000. Stringent budgetary guidelines were put on all departments, emphasizing that budgetary authority is not a mandate to spend and that actions to keep expenses low should be taken whenever possible.

Pensions

Changes were made to police and fire unions' pension eligibility. Employees' annual pension contributions were increased to 9.5% of all earnings for those in the fire and police unions. For members of the unions hired prior to the introduction of the new pension guidelines, the portion of pensions earned up to the 20th year of service are calculated according to the expired bargaining agreement. However, the multiplier was reduced to 2.25 and capped at 240 hours of leave time included as part of the final average compensation (FAC) for all service time earned after the effective dates of the new collective bargaining agreements.

Similar adjustments were made to the pension benefits for locals 1600 and 1799. The defined benefit multiplier was reduced to 1.5% prospectively, and the employee contribution rate was increased from 8% to 12% for Local 1600 and to 9.5% for Local 1799. Hybrid retirement plans (with both defined contribution and defined benefit components) were established for new hires and former defined benefit plan participants. Employees' contributions to the defined contribution components are matched by the City of Flint; employer contributions to the defined benefit component were capped at 10%.

To save administration-related costs, pensions for all unions with collective bargaining agreements with the City of Flint were transferred from the Flint Employees' Retirement System (FERS) to the Michigan Municipal Employees Retirement System (MERS).[ix] This move was approved by all but the police officers' union; section 19(k) of PA 4 was invoked to approve the transfer of Flint police officers' pensions.

Other Post-Employment Benefits

Changes were made to the healthcare benefits received by retirees of the police and fire unions. Cuts included discontinuing healthcare for a former employees' spouse if he or she is eligible to receive paid health coverage through an employer or former employer. The City of Flint reduced the number of plans offered to employees hired after July 1, 2012, offering a high deductible plan in conjunction with a health savings account. Through executive orders, the EM reserved the right of the city to change or discontinue the health insurance programs in response to the Patient Protection and Affordable Care Act (PPACA) as amended.

The City of Flint scaled back its contribution requirements for an active employee's health coverage, requiring employees to pay any premium contributions that exceed the amount contributed by the employer through pension deductions.

Retirees and their spouses aged 65 and over who are covered by Medicare supplemental plan at the employer's expense are subject to contribution limits of the Publicly Funded Health Insurance Contribution Act (PA 152 of 2012) if and only if the retiree enrolls in and pays for Medicare Supplemental Part B. Changes made to the healthcare coverage of retired members of the local 1600 and 1799 unions were similar to those of the other major unions representing City of Flint employees.

Changes were made to the retiree health benefits offered to personnel hired after the effective dates of the new agreements. Instead of employer-paid retiree healthcare coverage, members of the police officers' and firefighters' unions, as well as locals 1600 and 1799 hired after April 2012 were eligible for Retiree Medical Savings Accounts (RMSAs) to which the City of Flint and employees contribute through payroll deductions.

Under the executive orders, the City of Flint committed to contribute $1,500 annually to the RMSAs, with employees contributing $600 per year. Employees will be 100% vested at all times on their own contributions and investment earnings, while employer contributions and investment earnings will be 100% vested after five years of completed service. The same changes were made to retiree health benefits of newly hired nonunion city government

[10] From $63,080.16 to $50,791.52 for CAD supervisors, from $60,515.52 to $56,998.24 for quartermaster, and from $33,467.20 to $27,270.88 for comm. specialist trainees

employees. Contributions to a new employee's RMSA continue until the employee is no longer employed by the City of Flint (including retirement) or when the employee becomes eligible for Medicare. These benefits were not made available to nonunion retirees or spouses who are eligible for health coverage through another employer or former employer.

Other Reforms

In addition to actions taken to reduce the City of Flint's financial obligations in relation to staff, other measures were taken to address the growing deficit. User fees were implemented for waste collection and a special assessment was levied to provide funds for the operation of street lighting (to eliminate $2.85 million in costs to the city government's general fund[x]). Both fees were added to homeowners' property tax bills. Water and sewer rates were increased by 25% to adequately cover the costs of operating both systems.

The City of Flint's Fiscal Year 2013 budget, passed by an executive order on April 24, 2012, was the first balanced budget it had passed in seven years. A total of 155 positions (16% of the workforce) were eliminated.[xi]

Property taxes were increased in order to support police and fire budgets. This increase was achieved by a vote of the city's residents, who approved a 6 mill property tax increase on November 6, 2012.[xii] This tax increase allowed the city government to maintain staffing levels in the police and fire departments that had, up until that point, been supported through a federal grant.

IV. City Finances

Repeated periods of governmental fund deficits can be used to identify cities with chronic fiscal stress. If a city is consistently unable to sustain a positive fund balance, it is likely facing structural budgetary constraints. The City of Flint's fund balance/accumulated deficit history highlights its recurring deficits (**Exhibit IV-1**). Temporary solutions provided some periods of short-term relief in 2005 to 2007 due to the measures taken by an emergency financial manager under Public Act 72 of 1990. The governor appointed the EFM in May 2002, who remained in place until 2004. The progress made during the EFM's tenure was undone three years later due to subsequent labor settlements, costly litigation, and declining revenues. The City of Flint closed FY2008 with a deficit in the General Fund of $6.8 million. Since 2010, the Flint city government has been able to build up the fund balances in its other governmental funds, but has mixed performance in controlling the deficit in its General Fund, which is the main fund for general operating expenses.

General Fund

As of June 30, 2014, the City of Flint's General Fund ended the year with an accumulated deficit of $8.9 million. This is the seventh consecutive year that the fund balance has been in a deficit position, but significantly reduced from the $19.1 million deficit in FY2012. FY2014 is also the third year since FY2006 that the city operated with a surplus in its General Fund; the only other year in which the General Fund ended with a surplus is FY2011 (**Exhibit IV-2**).

Exhibit IV-1 Governmental Funds – Flint History of Fund Balances
Data source: City of Flint Comprehensive Annual Financial Reports

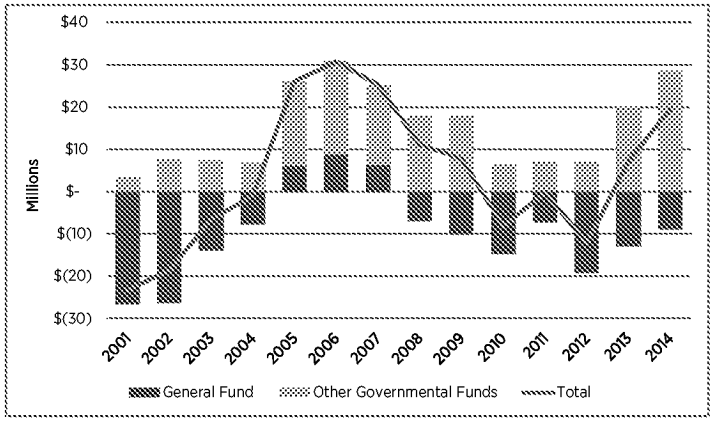
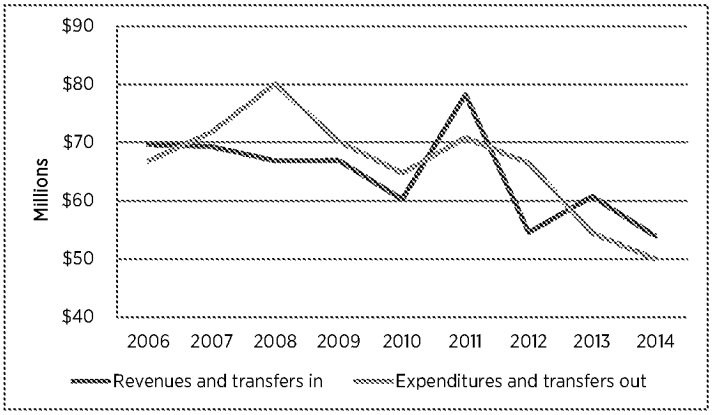


Exhibit IV-2 Flint General Fund Revenues and Expenditures
Data source: City of Flint Comprehensive Annual Financial Reports



Revenues

As of 2014, the four primary sources of revenue, and their proportionate share of the General Fund, are property tax (10%), income tax (24%), state shared revenue (32%), and charges for services (18%). **Exhibit IV-3** shows the changes in the share of General Fund revenues over time. Typically, the property tax is the primary source of revenue for local governments. However, the City of Flint's reliance on the property tax has severely diminished over the last several years, which is a testament to the impact of falling property values in the city. Conversely, the share of revenues from charges for services has seen an overall growth. In FY2010, the share of revenues from charges for services actually exceeded that from property taxes. Both the share of revenues of income taxes and of state shared revenue have also declined, but to a lesser extent. The spike in the share of "Other" revenue funds in FY2011 was due to an $8 million debt issuance in the form of 25-year fiscal stabilization bonds from the Local Government Loan Program through the Michigan Department of Treasury. This was less than half of the $20 million in bonds that the City of Flint had initially requested in order maintain operations when it had anticipated that it would run out of cash by March 1, 2011.

Property Tax

Property tax in Michigan is assessed on both real and personal property, though municipalities are limited in levying property taxes in a number of ways. First, the Home Rule City Act of 1909 limits cities in Michigan to levying property taxes of no more than 20 mills for direct municipal services.[xiii] Next, the Headlee Amendment, ratified in 1978, limits the authorized millage rate when property values rise at a faster rate than the rate of inflation.[xiv] Increases in property values due to improvements or new construction are not subject to this limit. Finally, in 1994, Michigan voters approved Proposal A, which limited annual increases to the taxable value to 5% or the rate of inflation, whichever is lower, until there is a transfer of ownership.[xv]

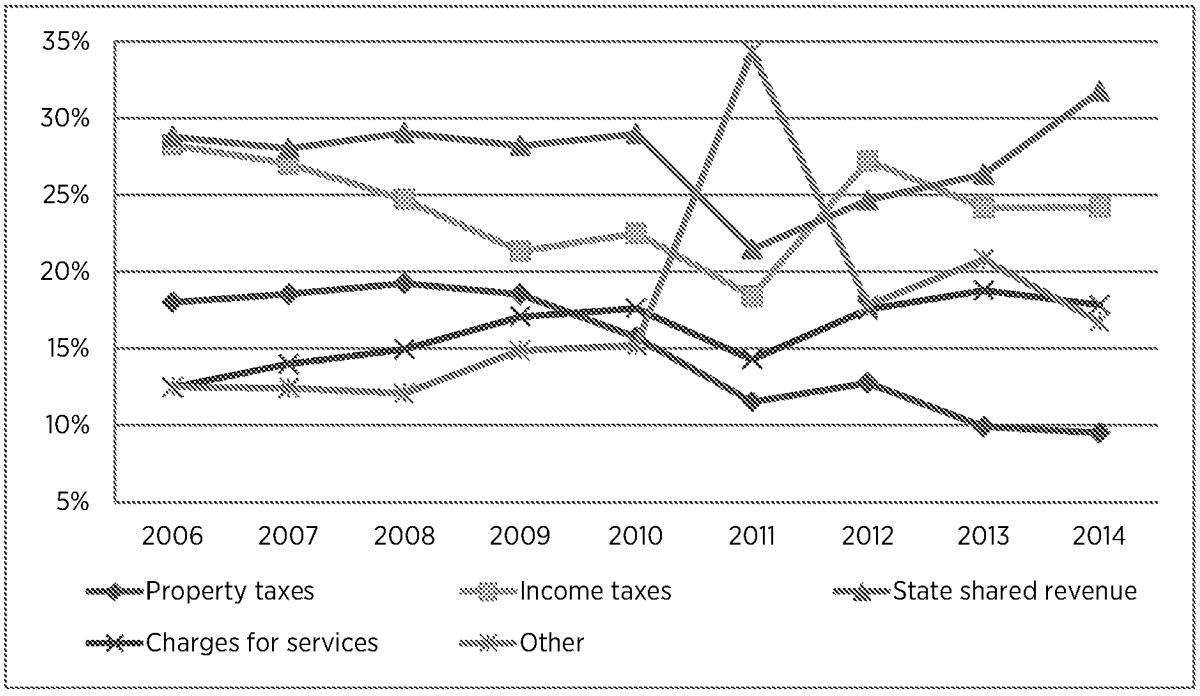


Exhibit IV-3
Share of Flint General Fund Revenues
Data source: City of Flint Comprehensive Annual Financial Reports

Compared to the 10 most populated local units in Genesee County, which represent 72% of the population, the city of Flint levies the highest homestead tax rate (**Exhibit IV-4**). This may cause the city to be less competitive in attracting residents, which hinders its ability to increase its tax base. High tax rates also create incentives for residents to relocate to the suburban areas, which may be one factor that contributes to the population decentralization trends shown in **Exhibit II-2**. For example, a homeowner in the city of Flint will pay, on average, 37.7% more in property taxes than residents of the nine other largest communities that own properties with the same taxable value. This is a substantial increase compared to the same analysis that was performed in the 2011 case study; in FY2011, a homeowner in Flint would pay on average 28.2% more than a homeowner in the other nine communities with a property that had the same taxable value. If a residential property has a taxable value of $75,000, the homeowner in Flint will pay $4,413. A homeowner in the next most-populated community, Grand Blanc Charter Township, will pay $3,119.

Exhibit IV-4 Millage Rates in Genesee County for Fiscal Year 2013 (2014 Tax Rates)
Data source: 2013 American Communities Survey and Michigan Department of Treasury

Taxing Unit	Type of Unit	2013 Population*	Average Property Tax Rates					Annual Bill Based on Taxable Value of $75,000
			County	Local	School	State Education	Total	
Flint	**City**	**101,649**	**9.81**	**22.02**	**21.01**	**6.00**	**58.84**	**$ 4,413**
Grand Blanc	Charter Township	37,060	10.07	7.13	18.38	6.00	41.58	$ 3,119
Flint	Charter Township	31,614	10.07	10.74	20.96	6.00	47.77	$ 3,583
Burton	City	29,663	10.05	15.23	19.27	6.00	50.55	$ 3,791
Genesee	Charter Township	21,291	10.07	7.99	18.19	6.00	42.25	$ 3,169
Mount Morris	Charter Township	21,310	9.56	10.94	17.88	6.00	44.38	$ 3,329
Davison	Charter Township	19,373	10.07	3.35	15.91	6.00	35.33	$ 2,650
Fenton	Charter Township	15,408	10.07	2.08	15.47	6.00	33.62	$ 2,522
Mundy	Township	14,932	10.07	5.56	16.51	6.00	38.14	$ 2,861
Vienna	Charter Township	13,119	10.07	5.04	13.78	6.00	34.89	$ 2,617
Population of Ten Largest Units		**305,419**				**Average**	**42.74**	**$ 3,205**
As a % of County Total		**72%**						

* ACS 5-year estimate

Although the nonhomestead property tax rate had been fairly stable from 2000 to 2010, a more noticeable increase has occurred over the last few years (**Exhibit IV-5**). In 2013, the direct city millage increased from 16.1 to 19.1 mills with the addition of the 6 mill public safety millage and an elimination of a 3 mill waste collection millage.

As discussed in section II, property values in Flint have dramatically declined over the past four years. **Exhibit IV-6** shows a corresponding reduction in property tax revenues; receipts from property taxes in FY2014 were less than half those in FY2006, and less than 40% of their peak in FY2008. The deterioration of the property tax as a stable revenue source is especially clear given that less than 10% of General Fund revenues are dependent on property taxes in FY2014 compared to more than 18% five years prior.

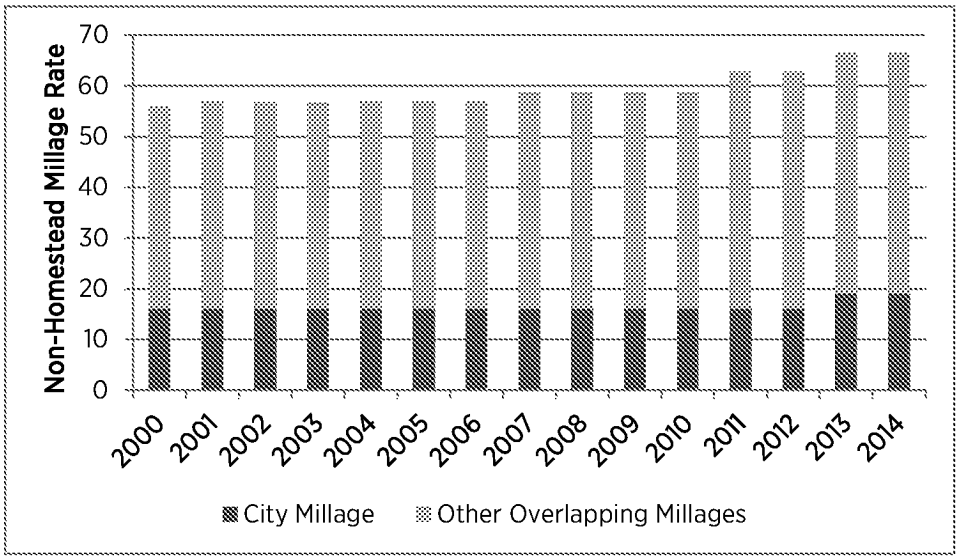


Exhibit IV-5 City of Flint Millage Rates
Data source: City of Flint Comprehensive Annual Financial Reports

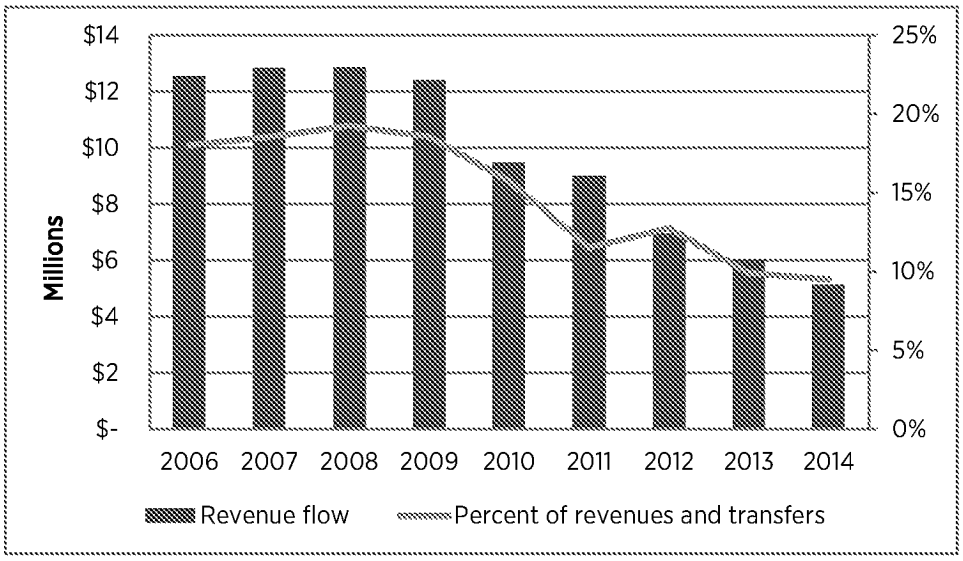


Exhibit IV-6 Flint Property Tax Revenue
Data source: City of Flint Comprehensive Annual Financial Reports

Income Tax

Of the 10 largest cities in Michigan, three are authorized to levy an income tax, including Flint. The income tax rate is 1% for city residents and 0.5% for non-residents. Income tax receipts steadily declined from FY2006 to FY2010 (**Exhibit IV-7**). Since FY2010, this revenue stream has stabilized and seen some slight growth, though it fell again in FY2014.

State Shared Revenue

State shared revenue is generated from a statewide sales tax. Revenue sharing to local governments consists of both constitutional and statutory payments. The constitutional portion is distributed on a population basis. The statutory portion of revenue sharing is defined by a formula based on a combination of population, taxable value per capita, and millage yield (a ratio of the taxable value per mill levied). Starting in FY2012, the statutory revenue sharing was replaced with the Economic Vitality Incentive Program (EVIP).[16] The EVIP allocates funding to cities, villages, and townships based on their ability to satisfy certain criteria, but relies on the old statutory program to determine participation and individual payment amounts. **Exhibit IV-8** shows the breakdown between the

Exhibit IV-7 Flint Income Tax Revenue
Data source: City of Flint Comprehensive Annual Financial Reports

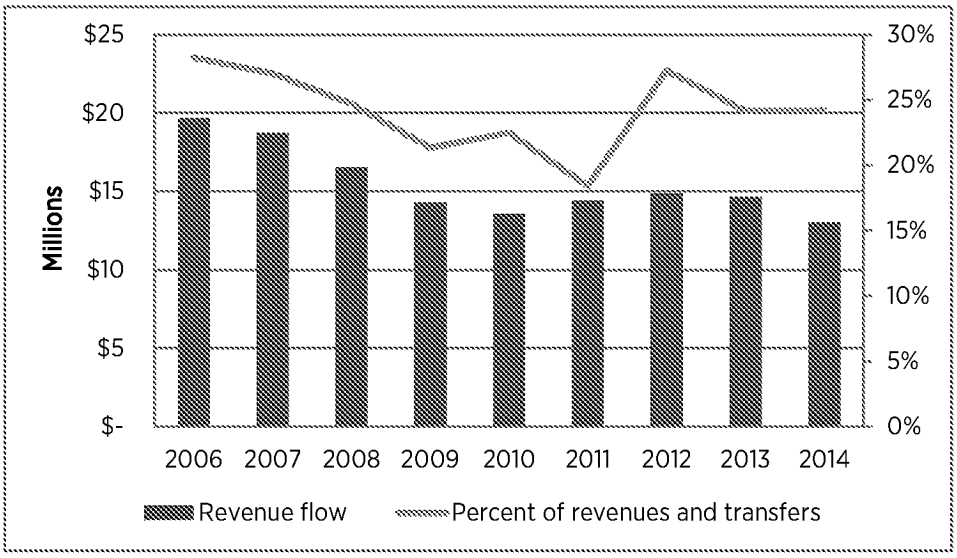
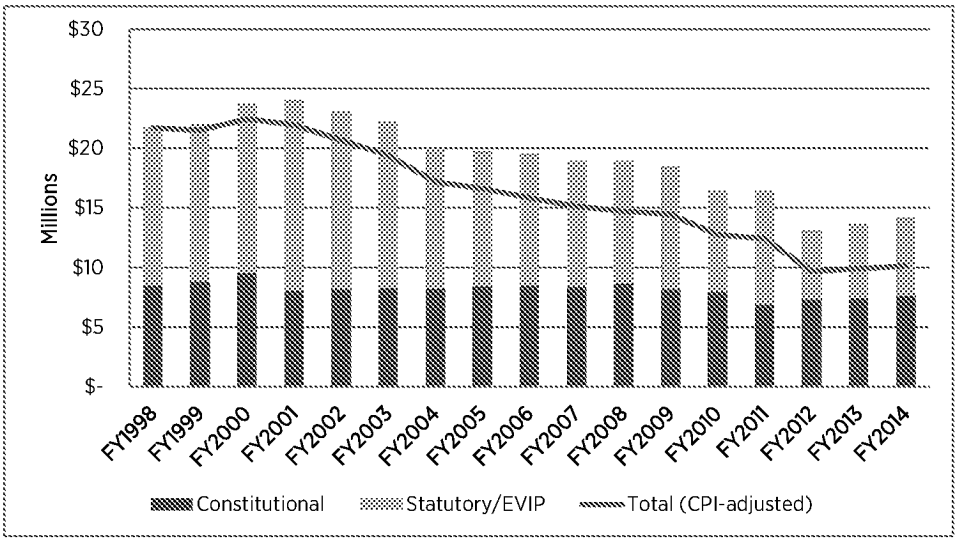


Exhibit IV-8 Breakdown of Flint State Shared Revenue
Data source: Michigan Department of Treasury



constitutional payments and statutory/EVIP payments to the City of Flint since FY1998. While constitutional payments have been fairly constant, there has been a substantial decline in statutory/EVIP payments.

Exhibit IV-9 displays the change in state shared revenue over time as reported in the city's financial audit reports.

Charges for Services

While all other revenue sources have been declining since FY2006, income from user fees and charges for services have actually increased on a nominal basis over the same period (**Exhibit IV-10**). Though it has fluctuated in recent years, the percentage of revenues and transfers from charges for services is still relatively high compared to FY2006. This is indicative of cities undergoing fiscal stress since they seek to replace the typical tax and intergovernmental sources with other revenue streams.

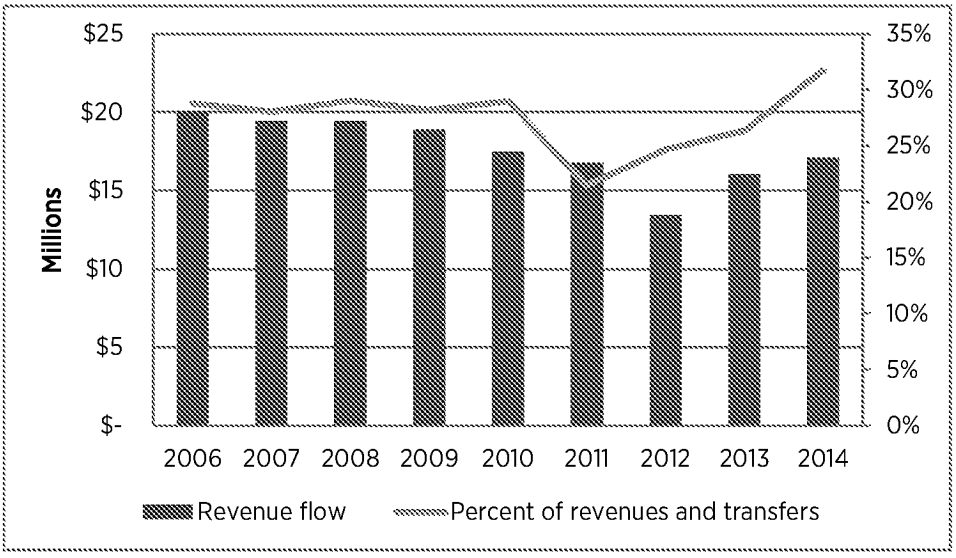


Exhibit IV-9 Flint State Shared Revenue Over Time
Data source: City of Flint Comprehensive Annual Financial Reports

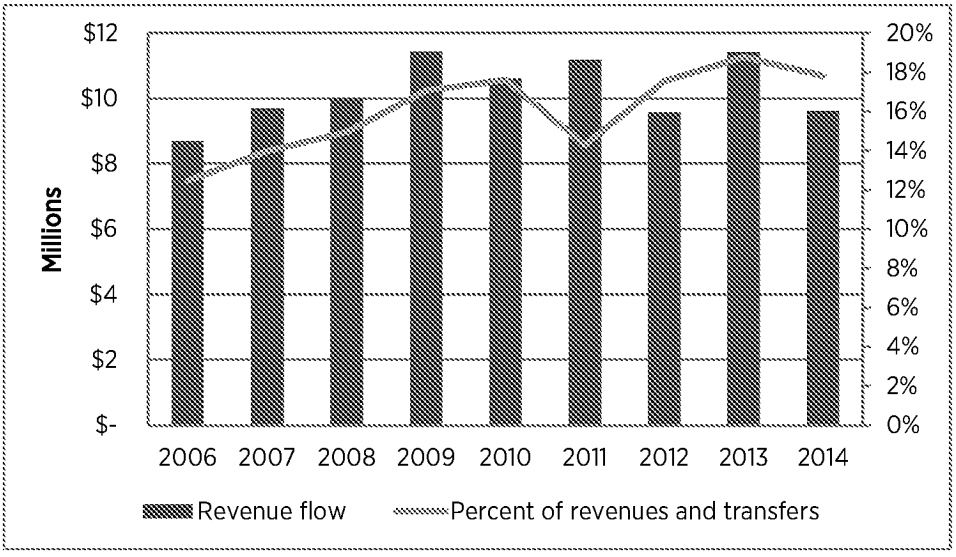


Exhibit IV-10 Charges for Services in Flint
Data source: City of Flint Comprehensive Annual Financial Reports

Expenditures

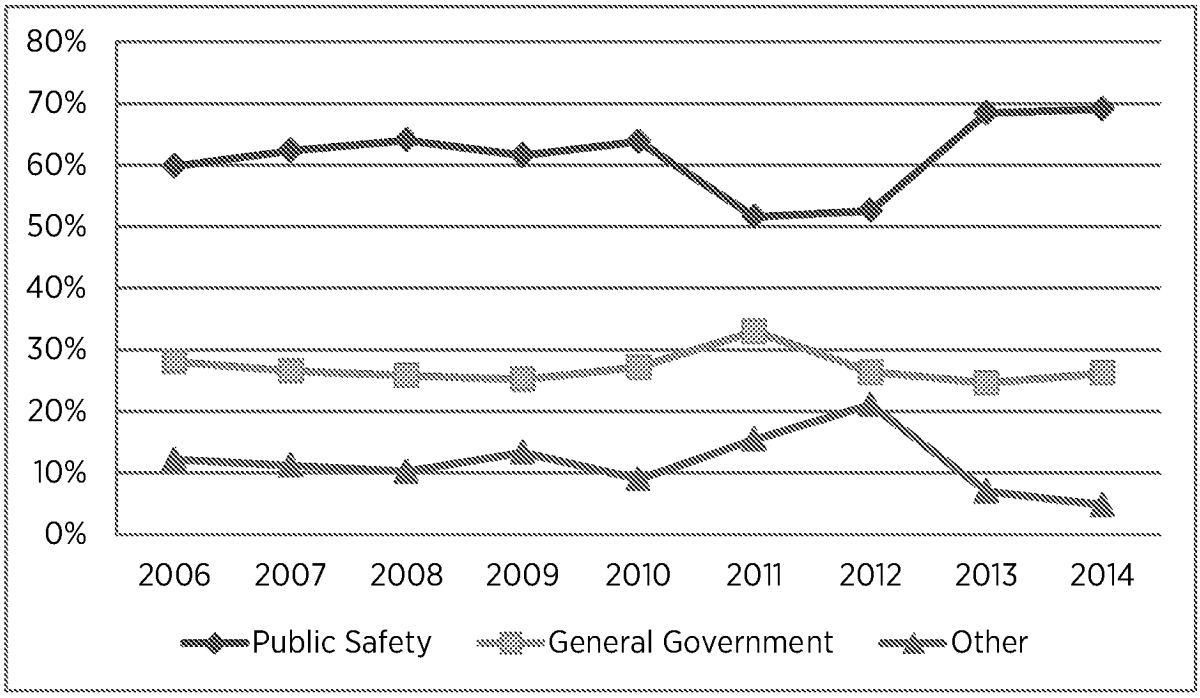
The primary General Fund expenditures are public safety and general government services. In FY2014, 69.1% of spending was allocated to public safety and 26.2% to general government (**Exhibit IV-11**). The following section will detail the spending in various categories for the city of Flint.

Public Safety

Public safety consists of the majority of the General Fund expenditures, and includes the following categories:

- Building inspection
- Combined public safety department
- Emergency dispatch
- Fire department
- Police department

Exhibit IV-11
Share of General Fund Expenditures in Flint
Data source: City of Flint Comprehensive Annual Financial Reports



As discussed in section III, during the November 2012 elections, the voters of Flint approved a 6-mill property tax increase for public safety with 57% approval.[xvii] The proposal also required that 55.5% of General Fund revenues be allocated to public safety budgets (**Exhibit IV-12**). Additional, temporary funding support includes:

- $6.9 million Staffing for Adequate Fire and Emergency Response (SAFER) grant from the Federal Emergency Management Agency (FEMA) awarded in 2012 to avoid laying off 32 fire fighters[11]
- $2.1 million in state funds granted in 2012 to re-open the city's lockup
- $1.8 million grant from the Michigan Department of Treasury Competitive Grant Assistance Program (CGAP) to install a communications tower in the city to expand radio coverage for police and firefighters awarded in April 2013

[11] This grant was awarded twice, but not renewed in 2014.

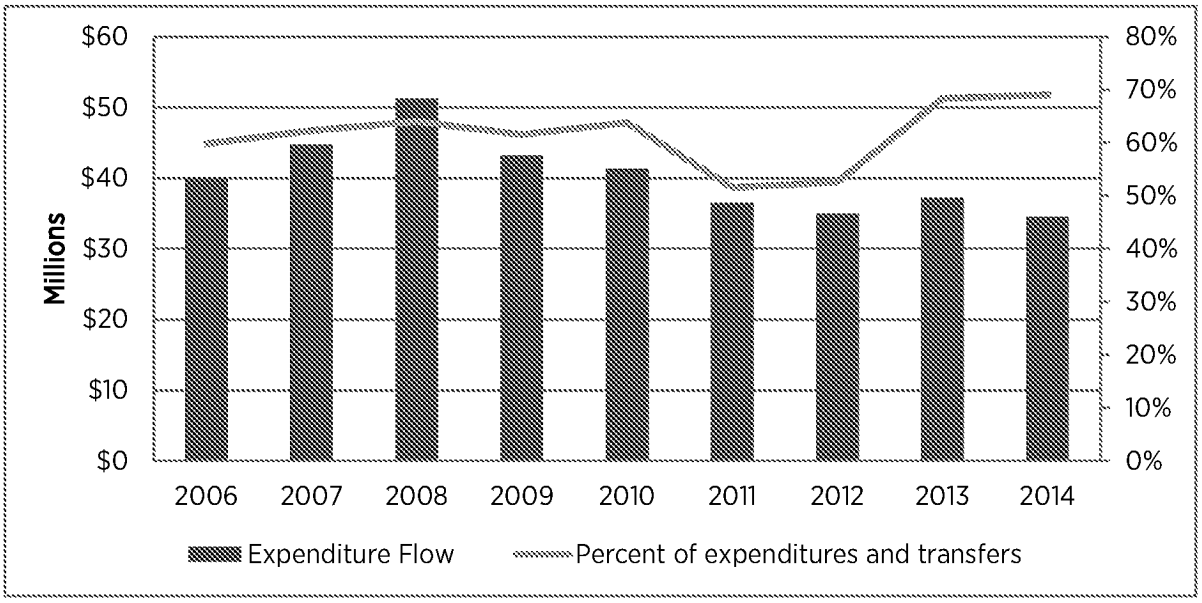


Exhibit IV-12
Flint Public Safety
Data source: City of Flint Comprehensive Annual Financial Reports

General Government

As of FY2014, general government expenditures include the following categories of local government operations:

- Mayor's office
- Finance
- Human relations
- City clerk
- Law office
- Human resources
- City administrator

Expenditures on general government have followed an overall decline since FY2008 (**Exhibit IV-13**). The exception in FY2011 was due to a settlement payment related to a lawsuit against the city regarding the sale of the Genesee Towers building.

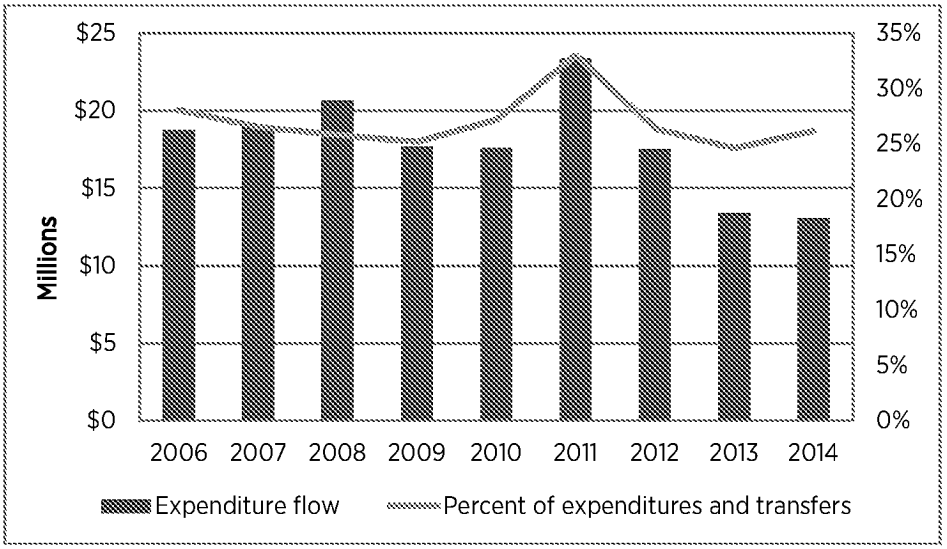
Special Revenue Funds

Revenues and expenditure trends for other governmental funds are shown in **Exhibit IV-14**. These include special revenue funds and debt service funds. As of FY2014, special revenue funds consist of the following types of funds:

- Major streets
- Local streets
- Neighborhood policing
- State Act 251 – forfeitures
- EDA Revolving Loan
- Public Improvement Fund
- Parks and recreation
- Senior citizen centers
- City park
- Building department
- Garbage collection
- Street light (special assessment)
- Public safety (special millage)

The city established a special assessment for streetlights in FY2013 to avoid making cuts to public safety. The public safety special millage was discussed in earlier sections of this report. As of FY2014, debt service includes funds from a

Exhibit IV-13 Flint General Government
Data source: City of Flint Comprehensive Annual Financial Reports



parking deck, Windmill Place, and Buick City. Relative to the General Fund, the city government has managed to keep expenditures in pace with revenues. About $6.5 million of the $10 million deficit in FY2011 was due to the Federal Grants Fund. The majority of the remaining deficit consisted of a $2.3 million deficit in the Major Streets Fund.

Proprietary (Enterprise) Funds

The City of Flint's two proprietary funds include water supply and sewer disposal operations. Prior to FY2012, Hurley Medical Center and the Golf Division were considered business-type activities as part of the city government under proprietary funds. However, starting in FY2012, the city began presenting Hurley as a separate component unit in the audit report, and in March 2012, the city entered into agreements with Flint City Golf, LLC, and the Mott Park Public Golf Course Association to operate the city's golf courses.

Historically, the City of Flint purchased Lake Huron water from the Detroit Water and Sewerage Department (DWSD). Per a resolution that authorized the sale of Drinking Water Revolving Fund bonds, the city government sets its water rates to cover expenses of the administration and operation of the water system. These expenses include the rates charged by the DWSD, which had increased on average by 10% per year. The rates must be sufficient to pay an amount equal to 125% of principal and interest on bonds and any other obligations. In January 2011, the city increased water and sewer rates by 25% and 22% respectively. Another increase of 35% on both water and sewer rates followed in September 2011 in order to meet these revenue requirements.

In April 2013, the city ended its contract with DWSD, and opted instead to contract with the Karegnondi Water Authority (KWA) to build a pipeline from Lake Huron to Genesee County. Effective October 1, 2013, the City of Flint entered into a contract to purchase water from the KWA, with the pipeline expected to be completed in July 2016. The city officially switched its water source to the Flint River in April 2014, to be used until the agreement with the KWA came into effect. However, the city and its residents have experienced several issues with water quality since then.[xviii]. Flint was awarded $2 million from the state through Michigan's Financially Distressed Cities, Villages, and Townships Grant Program to improve its water infrastructure and quality[xix].

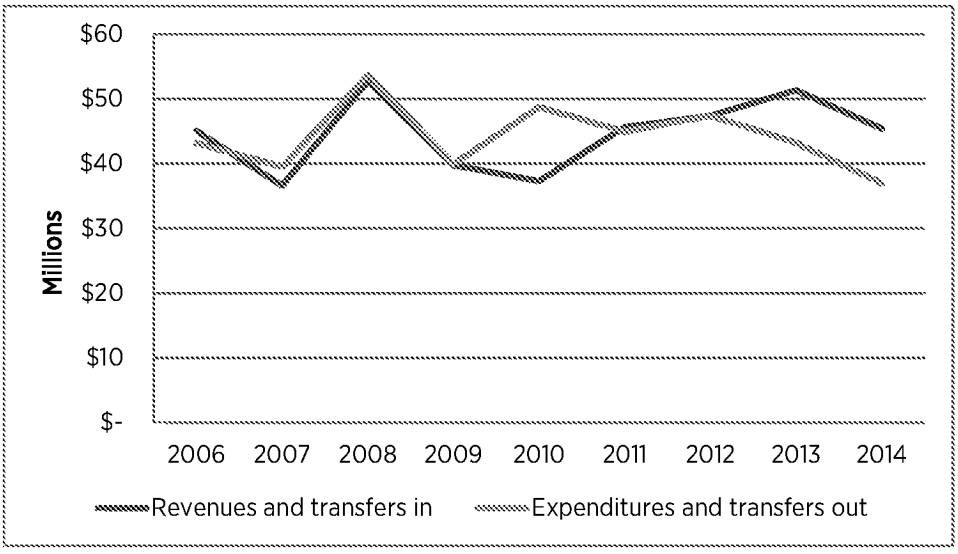


Exhibit IV-14 Other Flint Governmental Funds Revenues and Expenditures
Data source: City of Flint Comprehensive Annual Financial Reports

In general, the revenues and transfers into the water supply fund have exceeded expenditures and transfers out (**Exhibit IV-15**).

In contrast, the sewer disposal fund had seen major deficits annually up until FY2013 (**Exhibit IV-16**). One major contributor to the operating losses associated with this fund is internal borrowing by other funds. This will be discussed in more detail in section V.

Exhibit IV-15 Flint Water Supply Fund Revenues and Expenditures
Data source: City of Flint Comprehensive Annual Financial Reports

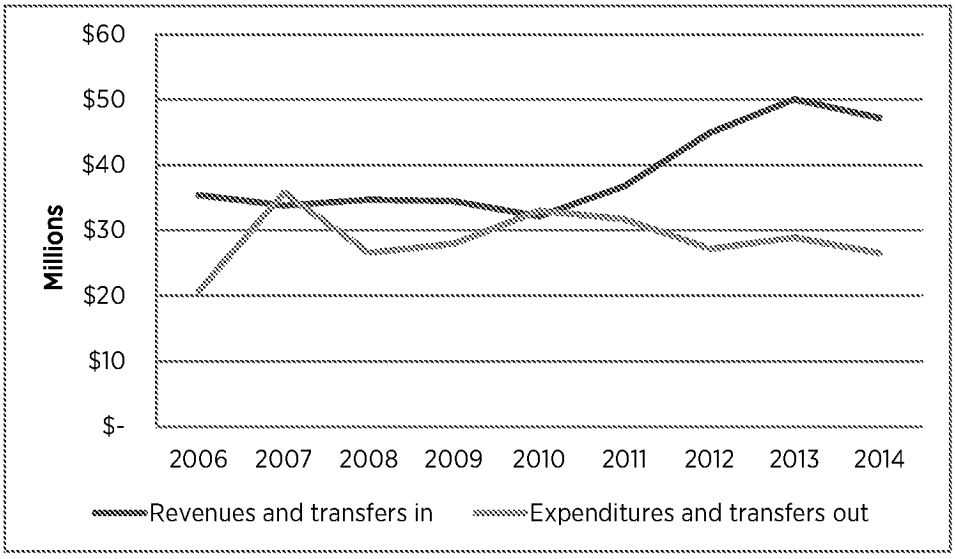
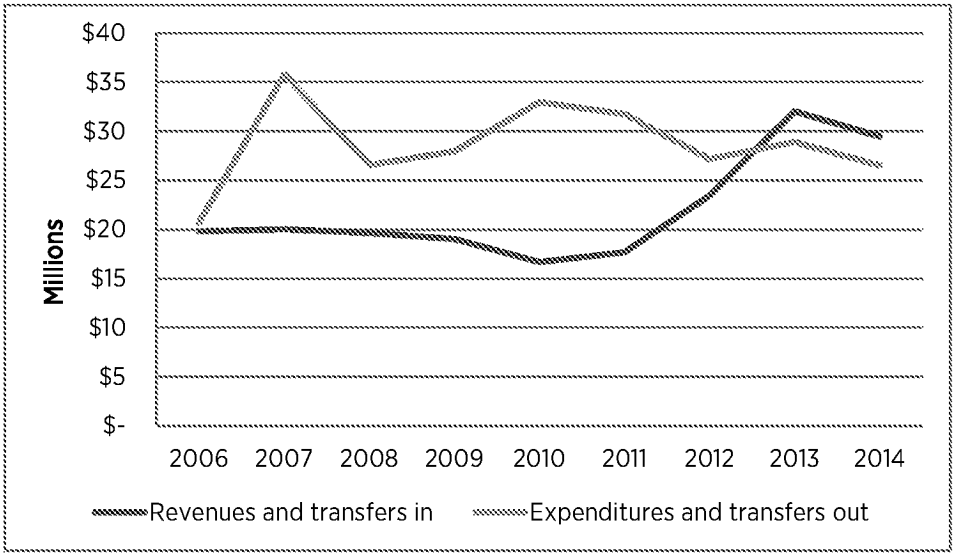


Exhibit IV-16 Flint Sewer Disposal Fund Revenues and Expenditures
Data source: City of Flint Comprehensive Annual Financial Reports



Internal Service Funds

The City of Flint allocates the internal service funds for data processing, fringe benefits, central maintenance garage, and self-insurance. Internal service funds should be self-sustaining through charges for services to other departments and funds. However, this is not always the case, as shown by the positive figures for "Transfers In" in **Exhibit IV-17**. The Central Maintenance Garage Fund received incoming transfers for six consecutive years. On average, these transfers amount to about 28% of operating costs annually. There was an exception in FY2013, in which the Central Maintenance Garage Fund issued an outgoing transfer to the Garbage Collection Fund in order to transfer proceeds related to the sale of city garbage trucks.

Exhibit IV-17 Flint Internal Service Fund Revenues and Expenditures (in thousands)
Data source: City of Flint Comprehensive Annual Financial Reports

Fiscal year	2006	2007	2008	2009	2010	2011	2012	2013	2014	Variation $	Variation %
Revenues and Transfers In											
Charges for services	$ 32,159	######	$ 41,269	$ 39,817	$ 35,715	######	######	$40,051	######	$ 22,931	71%
Transfers In	-	1,039	2,147	1,546	1,789	1,363	1,876	(1,500)	(1,072)	(1,072)	100%
Gain on Disposal of Capital Assets	-	-	-	-	-	-	-	1,047	155	155	
Investment Income	134	281	177	98	110	17	8	(83)	(6)	(139)	-104%
Revenues and transfers in	32,293	49,044	43,593	41,461	37,615	46,288	52,088	39,515	54,168	21,875	68%
Expenditures											
Data Processing	2,104	2,149	2,360	2,868	2,032	2,367	2,887	2,019	2,376	272	13%
Central Maintenace Garage	4,013	5,179	6,439	6,020	5,370	5,613	5,148	3,976	3,372	(641)	-16%
Self Insurance	2,770	17,715	5,180	3,173	2,028	8,706	3,813	2,387	1,399	(1,371)	-50%
Fringe Benefits	23,406	24,577	29,157	29,874	27,592	28,754	30,847	27,476	49,291	25,885	111%
Expenditures and transfers out	32,292	49,619	43,136	41,935	37,022	45,439	42,695	35,858	56,437	24,145	75%
Net change in	1	(575)	457	(474)	592	849	9,393	3,657	(2,269)		
Fund balance - beginning	2,856	2,856	2,281	2,738	2,264	2,857	3,706	13,099	16,756		
Fund balance - ending	$ 2,856	$ 2,281	$ 2,738	$ 2,264	$ 2,857	$ 3,706	$13,099	$ 16,756	$14,487		

V. Debt

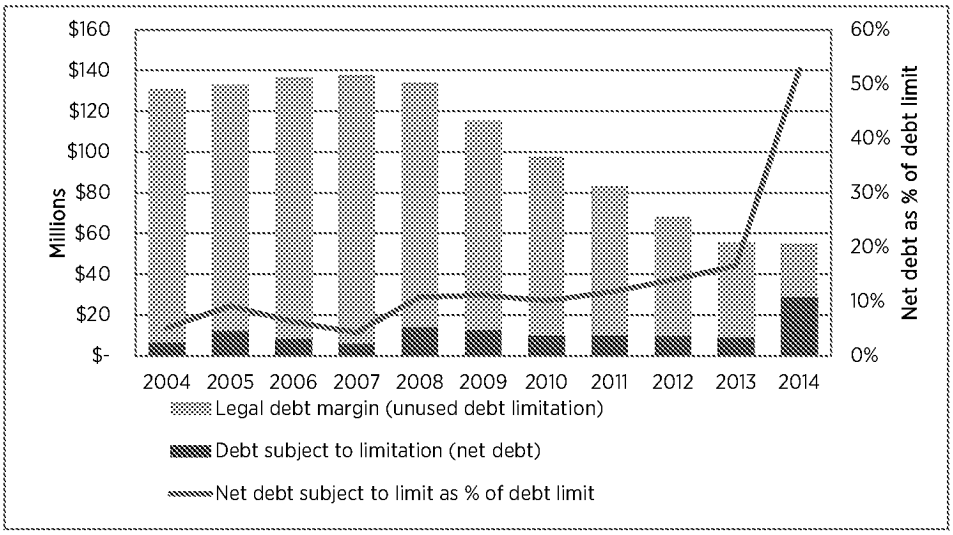
The City of Flint's bond rating has not been updated since the 2011 case study was written. The last bond rating was performed by Moody's Investor Service in February 2006. At that time, the City of Flint was assigned a rating of Ba1 with a stable outlook.

According to the city's financial audit reports, the City Charter limits net debt to 7% of the assessed value of the real and personal property in the city. **Exhibit V-1** discloses breakdown of the city's net debt limit since 2004. While the absolute amount of the city's debt has been fairly stable over time, the decline in property values in the city has closed the legal debt margin considerably (**Exhibit V-1**). As a result, the net debt as a percentage of the debt limit has jumped from about 4.3% in FY2007 to 16.6% in FY2013.

Many cities with chronic fiscal stress have a significantly large debt burden, which has not necessarily been the case for the City of Flint. The 2011 case study noted that this issue of fiscal distress was mainly due to the lack of capacity to issue debt or manage a long-term capital improvement program. In FY2011, the City made its final payment on an $8 million financial recovery bond issued in 2004 when it was operating under the authority of a state-appointed EFM. As noted earlier, the current level of fiscal stress has caused the City of Flint to seek $20 million fiscal stabilization bonds, of which it received $8 million. These funds are intended to address the chronic cash shortage and unfunded prior operating expenditures. Recurring cash shortages and the need to finance prior years' operations are often considered additional red flags indicating chronic fiscal stress.

Another symptom of chronic fiscal stress is an increased reliance on internal borrowing, another trend that has continued since the 2011 case study. When the City of Flint has difficulty obtaining external financing at a reasonable rate, cash from internal funds becomes a default source of borrowing. **Exhibit V-2** summarizes interfund borrowing activity since FY2006. The nature of this type of activity is generally related to operating transactions among funds. The City of Flint has used this to address cash shortages at the close of the fiscal year. The "Due to/from Other Funds" section is related to short-term loans, while the

Exhibit V-1 Flint Long-Term Debt Limit
Data source: City of Flint Comprehensive Annual Financial Reports



"Advances to/from Other Funds" is related to long-term loans. A concern arises when these balances are significant in dollar amounts and present for more than one year. The City of Flint's General Fund has relied on short-term interfund resources for seven out of the last nine fiscal years and long-term interfund resources since FY2012. As shown in **Exhibit V-2**, the primary lending fund for these transfers has been the Sewer Disposal Division Fund, which contributes to the fund's long-term structural deficit, as reported in **Exhibit IV-16** on page 26. The short-term balance of approximately $13.2 million at June 30, 2013, equates to almost 25% of General Fund revenues for FY2014.

In July 2012, the Flint City Council President, along with three other residents, filed a lawsuit against the city, claiming that the water and sewer rate increases in 2011 violated city ordinances.[xx] The claim was that because water and sewer funds have been transferred to the General Fund, additional funds raised had not been allocated toward their intended purposes. A Genesee County Circuit Court judge dismissed the case in June 2013, claiming that the rate increases were in compliance with Public Act 4, which granted legal power to emergency managers to make rate increases to reflect true operating costs.

As noted in the 2011 case study, advances among funds are often formalized in a written note with specific payment terms including an interest rate. The City of Flint has used advances to fund capital equipment purchases in its internal services funds. Such reliance on interfund borrowings may restrict the lending fund's financial flexibility and use of resources for the designated purpose. Recent advances from the Sewer Disposal Division Fund to the General Fund represent return on equity.

Exhibit V-2 Flint Interfund Borrowing for FY 2006 through FY 2014
Source: City of Flint Comprehensive Annual Financial Reports

Due to/from Other Funds									
Fiscal year	**2006**	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**
Due to:									
Sewer Disposal Division Fund	**$ 10,371,382**	**$ 3,677,506**	**$ 20,161,971**	**$ 20,076,951**	**$ 15,532,804**	**$ 10,524,275**	**$ -**	**$ -**	**$ -**
Self Insurance Fund	-	15,700,000	16,505,386	11,533,250	-	-	-	-	-
Others	9,344	-	-	263,503	7,849,233	12,326,801	18,281,313	9,681,892	9,637,895
	$ 10,380,726	$ 19,377,506	$ 36,667,357	$ 31,873,704	$ 23,382,037	$ 22,851,076	$ 18,281,313	$ 9,681,892	$ 9,637,895
Due from:									
General Fund	**$ 7,279,154**	**$ -**	**$ 14,653,786**	**$ 17,169,931**	**$ 18,002,907**	**$ 14,491,155**	**$ 10,911,215**	**$ 6,312,097**	**$ 13,216,455**
Special Revenue Funds	1,987,245	1,977,579	2,915,148	2,470,945	3,024,856	3,426,800	2,929,238	2,518,595	-
Internal Service Funds	495,116	973,629	216,290	66,535	115,959	-	-	-	-
Pension Trust Funds	609,867	309,265	1,125,312	-	-	-	-	-	-
Enterprise Fund	-	413,729	1,251,435	369,540	1,387,115	708,044	3,589,660	-	-
Fiduciary	-	3,304	-	-	-	-	-	-	-
Sewer Disposal Division Fund	-	15,700,000	16,505,386	11,533,250	851,200	4,225,077	851,200	851,200	-
Others	9,344	-	-	263,503	-	-	-	-	-
	$ 10,380,726	$ 19,377,506	$ 36,667,357	$ 31,873,704	$ 23,382,037	$ 22,851,076	$ 18,281,313	$ 9,681,892	$ 13,216,455

Advances to/from Other Funds									
Fiscal year	**2006**	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**
Advance from:									
Sewer Disposal Division Fund	**$ 5,251,361**	**$ 6,094,131**	**$ 4,940,753**	**$ 9,266,399**	**$ 2,426,749**	**$ 1,348,618**	**$ 10,522,453**	**$ 9,800,000**	**$ 2,660,000**
Water Supply Division Fund	-	-	-	-	-	-	1,000,000	1,000,000	1,130,000
	$ 5,251,361	$ 6,094,131	$ 4,940,753	$ 9,266,399	$ 2,426,749	$ 1,348,618	$ 11,522,453	$ 10,800,000	$ 3,790,000
Advance to:									
Internal Service Funds	**$ 4,539,404**	**$ 5,524,565**	**$ 4,513,579**	**$ 7,279,154**	**$ 2,426,749**	**$ 1,348,618**	**$ 522,680**	**$ -**	**$ -**
Enterprise Fund	711,957	569,566	427,174	1,987,245	-	-	-	-	-
General Fund	-	-	-	-	-	-	10,999,773	10,800,000	3,790,000
	$ 5,251,361	$ 6,094,131	$ 4,940,753	$ 9,266,399	$ 2,426,749	$ 1,348,618	$ 11,522,453	$ 10,800,000	$ 3,790,000

VI. Personnel Costs

Annual Earnings and Benefits

The City of Flint's payroll has declined by almost 1,000 full-time equivalent employees, about 63%, since 2001 due to attrition and downsizing (**Exhibit VI-1**). This breaks down to a 59% reduction in public safety employees and a 65% reduction in other city employees. The majority of this reduction has taken place since 2008.

Pension Benefits

The City of Flint has a defined benefit pension plan with a benefit that ranges from 1.7% to 2.6% of the participant's Final Average Compensation (FAC) based on the last three years of credited service, multiplied by the years of credit service based on the date of hire. Employees who retire at or after age 55 with 10 years of credited service (eight years for appointed officials) or those members with 25 years of credited service (23 years for police and fire employees), regardless of their age, are entitled to a retirement benefit. Certain police members can voluntarily retire at age 50 with 25 years of service. Benefits fully vest on reaching 10 years of service with the benefit payable at age 55. The plan requires employee contributions ranging from 0% to 9%.

Beginning in October 2012, the City of Flint closed out its single-employer plan and transferred approximately $270 million of assets to the Michigan Municipal Employees' Retirement System, an agent multi-employer plan that covers substantially all employees of city government. The City of Flint's unfunded pension liability is $241 million, as of its most recent actuarial valuation.

Defined benefit plan pension benefits are determined by following a three-part formula:

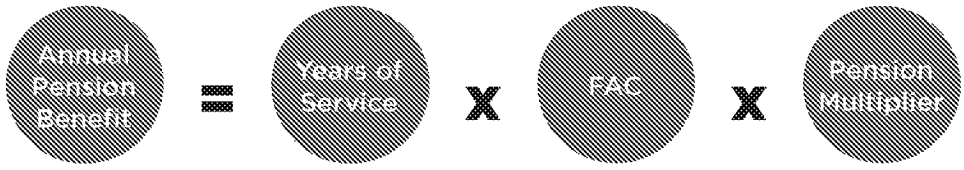
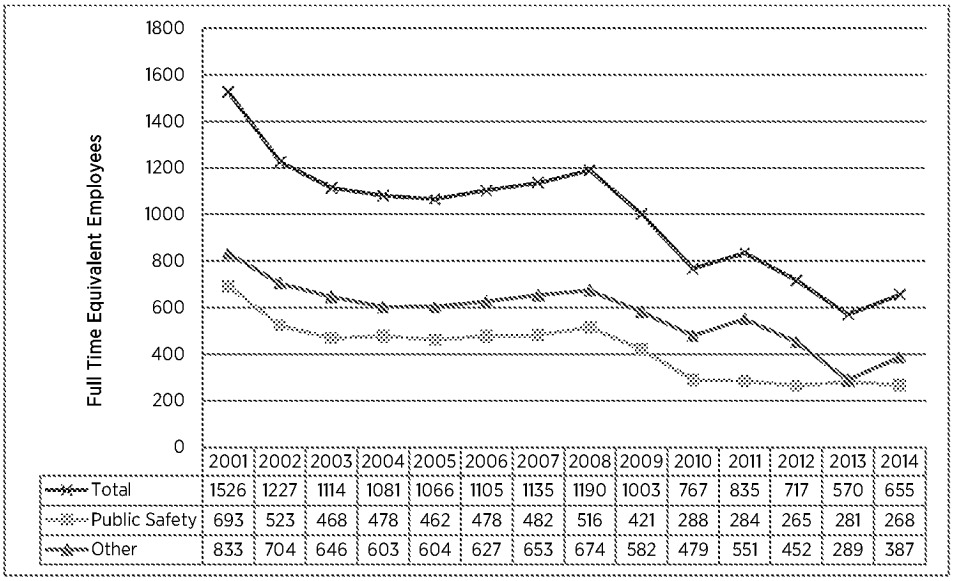


Exhibit VI-1 Flint Full-Time Equivalent Employees
Data source: City of Flint Comprehensive Annual Financial Report



	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total	1526	1227	1114	1081	1066	1105	1135	1190	1003	767	835	717	570	655
Public Safety	693	523	468	478	462	478	482	516	421	288	284	265	281	268
Other	833	704	646	603	604	627	653	674	582	479	551	452	289	387

Years of Service – Years of service is based on actual employee service, although sometimes the employee or employer may "buy" years of service at an actuarially determined cost. Unless this is fully funded in advance, it increases the long-term liability.

Final Average Compensation (FAC) – The final average compensation is the average of wages or salary paid to the employee based on a predetermined number of years. Identifying what type of compensation is included in the FAC is important. If it includes overtime, vacation leave payout, longevity, and other pay items, the cost to the employer increases. When the FAC is determined using fewer years, typically the benefit is higher since it is based on highest years. When the FAC period is very short, even small increases in overtime, compensatory time payout, or accrued leave time payout will increase the pension. This is the reason some retirees' actual pension benefits are higher than their regular full-time pay as active employees.

Pension Multiplier – The pension multiplier represents a percent of pay for each year of service.

A cost of living adjustment (COLA) provides an annual increase in benefit retirement. A COLA benefit of E2 provides a 2% annual increase in pension for retirees. Granting automatic pension increases can further constrain future administrations. Employers typically have a pension plan design where they may instead grant a one-time COLA adjustment to retirees.

The proportion of the Annual Required Contribution (ARC) that the city government has contributed to cover pension expenses has improved over the past several years (**Exhibit VI-2**). For every year since FY2009, the City of Flint has contributed at least the ARC amount.

Flint's pension Unfunded Accrued Actuarial Liability (UAAL) has increased from $194 million in 2006 to $323 million in 2011, which was the time of the last actuarial valuation (**Exhibit VI-3**). The funded ratio fell during this time from 81% to 61%.

Exhibit VI-2 Flint Pension – Actual vs. Annual Required Contribution

Data source: City of Flint Comprehensive Annual Financial Reports

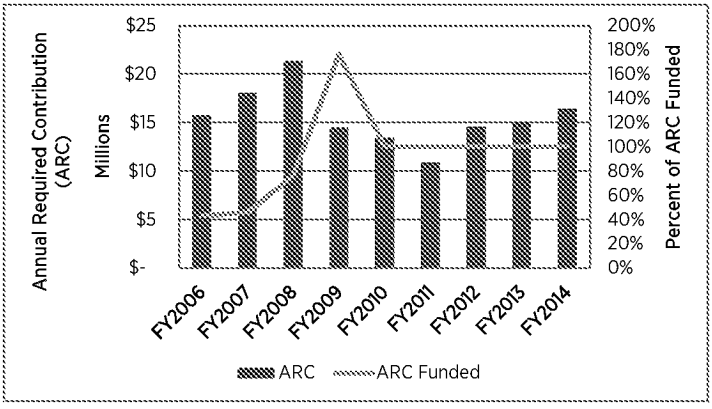
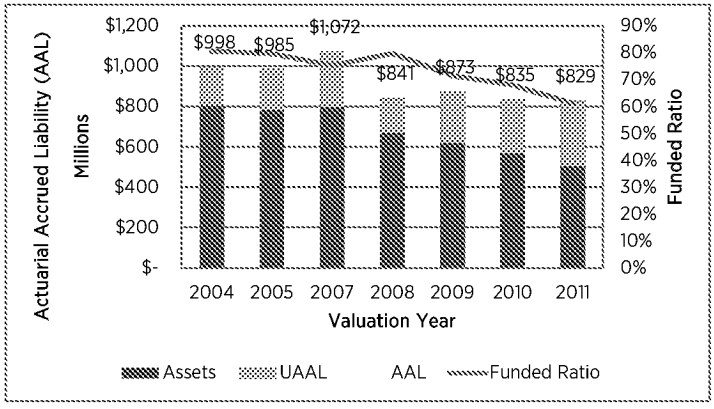


Exhibit VI-3 Flint Pension Funding Status

Data source: City of Flint Comprehensive Annual Financial Reports



Other Post-Employment Benefits

The City of Flint contributes to other post-employment benefits (OPEB) for public safety and general employees under collective bargaining agreements of Local 1799, Local 1600, and Fire Local 352. The proportion of the ARC that the city has paid to cover OPEB expenses has improved over the past couple years, from 31% in FY2011 to only 114% in FY2014 (**Exhibit VI-4**).

Since its actuarial valuation in 2006, the City of Flint's unfunded OPEB liability has been cut by $468 million. The city government began advance funding its OPEB plan in FY2012, which has been reflected in its 2012 actuarial valuation. As of this valuation, the plan is 0.1% funded, though that dropped to 0% in the 2013 valuation (**Exhibit VI-5**).

Exhibit VI-4 Flint Other Post-Employment Benefits – Actual vs. Annual Required Contribution
Data source: City of Flint Finance Department and Comprehensive Annual Financial Reports

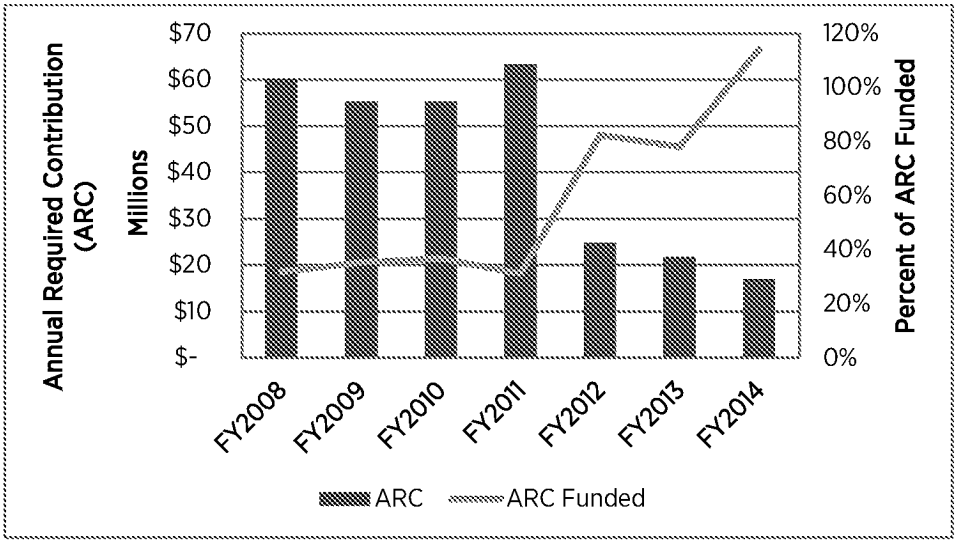
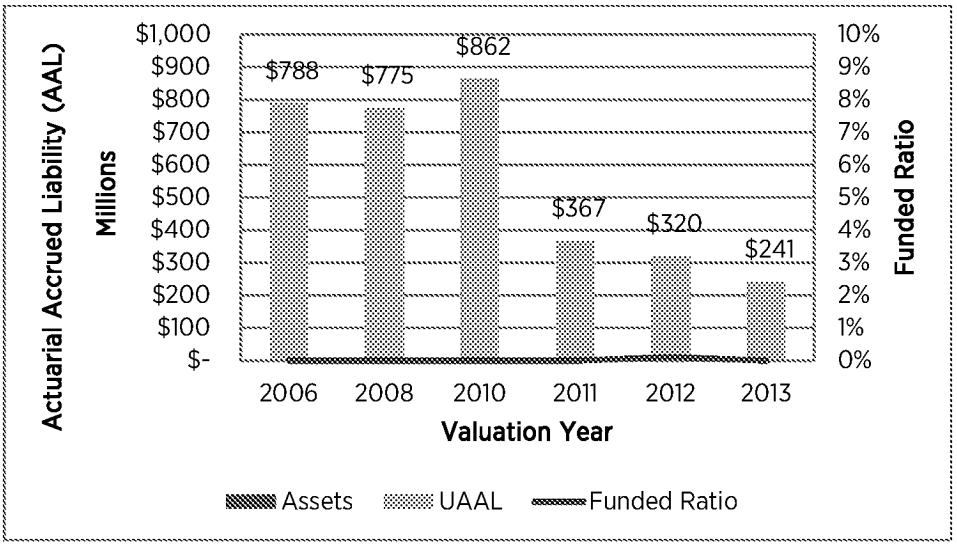


Exhibit VI-5 Flint Other Post-Employment Benefit Funding Status
Data source: City of Flint Comprehensive Annual Financial Reports



VII. Conclusion

On April 30, 2015, Gov. Rick Snyder rescinded the financial emergency in Flint and restored home rule and the power of the city's elected officials. It had been more than 10 years since the last time such an event occurred in Flint in the summer of 2004. Many questions still continue to swirl around the city's fiscal and economic future. A review of the reforms and changes that occurred since the appointment of an emergency manager in 2011 is a useful starting point for the city to understand the future fiscal trajectory it faces. This review will allow local and state officials to assess the reforms and changes in place and shape the future fiscal policy of the city of Flint, Michigan.

Changes implemented by the four emergency managers appointed to oversee Flint's finances were aimed at reducing the city's considerable budgetary deficit through reducing its financial obligations, especially pensions and other retiree benefits, while increasing city revenue. Some of the most significant changes have impacted the employees and retirees of the City of Flint. These two groups were the most important creditors of the city government. They remain so. Like many city governments in Michigan, Flint does not carry a large debt burden outside of water and sewer borrowing. This means that city retirees and employees are the groups owed the most by the city government and therefore, will be the most directly impacted during a financial reorganization following a fiscal crisis.

The structure of the city government was changed, with staffing reduced by 20%. A city administrator, who will serve as the city's chief administrative officer, was hired on a five-year contract. Among other responsibilities, the city administrator has the authority to negotiate collective bargaining agreements with the city's employee unions.

Reforms were also made to the way the city's budgeting practices, requiring two-year budgeting and three-year financial forecasts to be performed annually. This will allow city officials to identify and potentially deal with budgetary issues before they occur. The city government also adopted a master plan for the first time since the 1960s. The master plan identifies a vision for the city. It was developed with considerable input from the residents of Flint.

The electorate of Flint passed a referendum to have a Charter Review Commission put in place in the summer of 2015. The nine-member commission was elected in May of 2015. It will review the entire charter and assess options for reform. This is an excellent opportunity for the commission and the citizens of Flint to evaluate the current charter and determine a path forward for the city government that includes short-and long-term solvency.

The emergency manager signed a number of final orders before leaving office in April 2015. These orders involved the city council including agenda and meeting dates. They also included setting the special assessment for street lighting, restoring mayor and city council compensation, and adopting a set budget for FY 2016 and 2017. In addition, they included an order ensuring compliance with the so-called hard cap section of PA 152 of 2011 stating that the city shall not pay more than 80% of employee healthcare plans.

The final and perhaps most important order of the Flint emergency manager was issued on April 30, 2015. The overall purpose of the order is to ensure that the mayor and city council shall implement reforms and changes to maintain the fiscal stability of the city government. These provisions included following the recommendations of the Receivership Transition Advisory Board (RTAB) and city administrator. Specific other actions include 1) fully funding the annual pension requirement, 2) not interfering with city employees, 3) observing the budget ordinance, 4) ensuring all local laws are consistent with state laws, 5) not issuing debt without approval of the RTAB, 6) documenting all city liabilities, 7) verifying the appropriate eligibility requirements of all official city positions, 8) acting expeditiously on all economic development projects, and 9) reviewing and acting expeditiously on all intergovernmental cooperation initiatives by the city administrator. All of these provisions are intended to ensure that the city government, as dictated by the mayor and city council, follow certain practices and recommendations that are intended to maintain fiscal stability and solvency. These types of provisions were not in place after the 2002-04 crisis.

The city administrator is also subject to a number of provisions in the final EM order. These provisions include 1) overseeing day-to-day operation of city government, 2) negotiating and recommending changes to bargaining unit contracts to the RTAB, 3) submitting regular reports on city progress, 4) ensuring full compliance with PA 436 of 2012, 5) not removing city administrator without approval of RTAB, 6) observing all purchasing order ordinances, and 7) serving as primary interface between city council and city employees. Again, all of these provisions are meant to ensure the fiscal stability of the city government.

The changes made by the emergency managers have improved Flint's financial position. The general fund deficit was reduced from its peak of over $19 million in FY2012 to just over $8 million in the most recent fiscal year. The city has applied for a $7 million loan from Michigan's Emergency Loan Board, which would effectively eliminate

this deficit. Pension and OPEB liabilities have been significantly reduced, and reforms to employee collective bargaining agreements have reduced future legacy costs. Other cost-saving measures include transferring emergency dispatch to Genesee County and contracting out waste collection.

Despite the progress made since a fiscal emergency was declared in 2011, the City of Flint still faces considerable challenges to its fiscal solvency. Outgoing emergency manager Jerry Ambrose mentioned some of these in his final letter, including the lawsuit filed on behalf of Flint's retirees over changes made to their healthcare benefits, the structural deficit that still exists in the city's financial projections, challenges to fund the city's public safety needs, and the city's ageing infrastructure.

The overall Flint fiscal playbook that has been enacted by the state government and its emergency managers serves as an important template for these types of interventions.[12]

The first part of the playbook is that any reforms or changes must be in reference to the largest component of the fiscal problem, which in this case related to liabilities owed to employees and retirees. Many important changes were made to wages and compensation, pension system benefits, medical benefits and other such liabilities. Of equal or perhaps greater importance, there are a number of safeguards now in place to ensure that these changes remain in place for a long period. Any adjustments to these reforms must go through the city administrator and the RTAB. These safeguards are obviously meant to prevent any backsliding to previous wage or benefit levels. It is this type of activity that led to the most recent crisis, as changes made by the emergency financial manager in 2004 were not kept in place and most of those changes were rescinded by the elected officials between 2004 and 2011. Those changes, combined with the worst recession since the Great Depression, meant that the city faced short- and long-term fiscal insolvency in 2011.

[12] This statement is not meant as recommendation or approval for the state emergency manager law. There are many dimensions upon which the state emergency manager should be assessed. This statement is simply meant to reflect that, in following this path, the Flint experience, with one of the state's largest cities, may be an important reference point.

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Endnotes

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Sent: Friday, October 30, 2015 1:42 PM
To: Muchmore, Dennis (GOV)
Subject: How air toxics rule changes fail public health | Michigan Environmental Report

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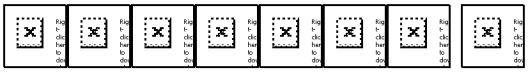

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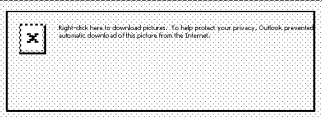
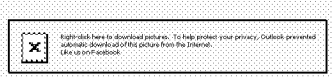


Be Social



Dear Dennis,

The Flint water crisis puts a spotlight on public health and the critical role our state's laws and regulations -- and how they are put into practice -- play in protecting the health of Michiganders.

Last week Governor Snyder appointed me to serve on the after-incident review task force regarding the Flint water issue. Ken Sikkema and I will serve as co-chairs. The Governor was very clear that he wants us to find out what happened and why, and how to prevent any similar situation from occurring in the future. The task force will make recommendations to the administration, including and not limited to, whether laws and regulations need to change

and whether there are practices that need to take place in water systems across the state. We are determined to shine a bright light on this unacceptable tragedy and provide much needed answers.

This week is National Lead Poisoning Prevention Week, and our blog post on the Flint water crisis covers why lead in drinking water is so significant. It gives an overview of the situation in Flint, along with policy changes needed now to restore public trust.

Also this week, the Michigan Department of Environmental Quality's proposed air toxics rule change is now open for public comment. It's our position that companies using chemicals -- and reaping the financial benefits of that use -- should bear the burden of demonstrating they are safe before emitting them into the air we breathe. Instead, the draft rule transfers to those living next to a factory the risk that the chemicals emitted can cause cancer or have other negative health consequences. This change is not acceptable.

When an emergency happens, it's an important and serious duty to review what went wrong and recommend what can make it right. It's even more important to fix our systems -- laws, regulations, and practices -- to protect public health in the first place.

Day in and day out, that is what we work to do at the Michigan Environmental Council.

Sincerely,

Chris Kolb
President

Michigan Distilled

Flint water crisis: Policy changes needed to restore public trust

In what has become a national news story and a full-fledged public health emergency, state officials now acknowledge that unsafe drinking water has exposed children, pregnant women and other Flint residents to dangerous levels of lead. Our blog post identifies some measures the state should take as soon as possible.
READ MORE

Air Pollution

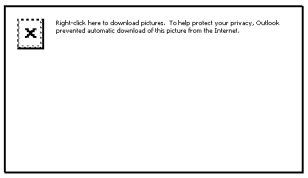
Air toxics rule changes fail to put public health first

Changes to state regulation of toxic air emissions proposed this week by the Michigan Department of Environmental Quality would

raise the risk of serious health impacts among Michigan families, particularly in vulnerable communities. The department announced that it is moving forward with a proposed administrative rule change requested by industry to deregulate 500 toxic chemicals which have been subject to oversight in the past. READ MORE

Sustainability

Fish farms don't belong in the Great Lakes

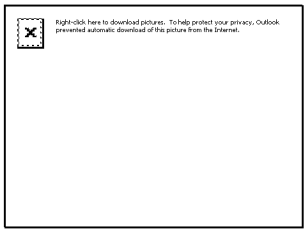


Michigan Trout Unlimited, MUCC & MEC op-ed

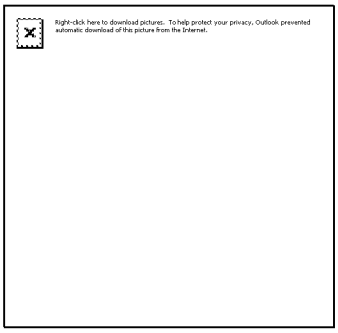
Multiple proposals to put fish farms in our shared Great Lakes waters are under consideration by state officials. We find it deeply troubling that this idea is even on the table. READ MORE

Water & Health

Task force appointed to examine Flint water controversy



Gov. Rick Snyder appointed an independent task force to examine the controversy over Flint's tainted water. The task force will look into the actions that went into water use in the beleaguered city, as well as the testing that took place on the water after the city switched from Detroit's water and sewerage system to pulling water out of the Flint River. READ MORE



MICHIGAN ENVIRONMENTAL COUNCIL

Your voice at the Capitol

Since 1980, the Michigan Environmental Council has been at the forefront of efforts to protect our Great Lakes, promote sustainable communities, safeguard public health and establish clean energy policies for a more vibrant economy. Representing over 70 member organizations throughout the state, MEC provides agenda-setting leadership at the State Capitol and with our Congressional delegation in Washington.

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Michigan Environmental Council | 602 W. Ionia Street | Lansing | MI | 48933

From: Rep. Sheldon Neeley (District 34) <SheldonNeeley@house.mi.gov>
Sent: Thursday, November 12, 2015 10:42 AM
To: Snyder, Rick (GOV)
Cc: Muchmore, Dennis (GOV); Hollins, Harvey (GOV)
Subject: City of Flint Restoration
Attachments: Letter to Governor.pdf

Please review the attached letter.

Thank you.

Sheldon

MICHIGAN LEGISLATIVE BLACK CAUCUS

P.o. Box 300361 LANSING, MI 489091 PH: (517) 373-50671 WWW.MICHIGANLBC.ORG

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November 12, 2015

The Honorable Rick Snyder
Governor, State of Michigan
George W. Romney Building
111 S. Capitol Avenue
Lansing, Michigan 48933

Dear Governor Snyder:

The Michigan Legislative Black Caucus (MLBC) voted Tuesday to ask that you eliminate the Regional Transition Advisory Board (RTAB) that oversees the city of Flint's finances and operations, and prevents the elected city government from exercising local control.

The RTAB's continued existence denies Flint residents and their duly elected representatives the local control needed to establish and enforce good public policy, and continue to manage the city's finances in a responsible manner. The democratic process is suppressed when elected officials have to constantly seek state approval to implement the programs and policies requested by the constituents.

We recognize that the RTAB serves at your pleasure. Unfortunately, we do not see an end in sight.

Consequently, we are asking that you issue an Order that eliminates the RTAB within the next six months, and allow for an orderly transition of authority back to the locally elected city officials.

Thank you for your attention and consideration in this matter.

Sincerely,

Rep. Sheldon A. Neeley
1 st Vice Chairman,
MLBC

cc: MLBC Officers & Members

From: Workman, Wayne (TREASURY)
Sent: Thursday, November 12, 2015 11:31 AM
To: Muchmore, Dennis (GOV); Saxton, Thomas (Treasury)
Subject: RE: Flint

Not very soon. They have only been there 6 months and the City now has a very large deficit in the Water Fund. We talked with the new Mayor about it on Tuesday. I will probably be in Flint next week with the Mayor and City Administrator.

From: Muchmore, Dennis (GOV)
Sent: Thursday, November 12, 2015 11:13 AM
To: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Subject: Flint

Now that the election is past and we are looking forward, how soon do you see us getting rid of the RTAB?

From: Hansen, Rachel (GOV)
Sent: Tuesday, November 17, 2015 3:11 PM
To: Workman, Wayne (TREASURY); Saxton, Thomas (Treasury)
Cc: Muchmore, Dennis (GOV)
Subject: Flint PDF
Attachments: City of Flint - Introduction and Review of Flint's Governance Structure.pdf

Hi Tom and Wayne-

Dennis asked that I send you the attached document which had been given to the Governor. Let me know if you have any questions.

Sincerely,

Rachel Hansen
Administrative Assistant to the Governor
Office of Governor Rick Snyder
517-373-2340
Hansenr3@michigan.gov

City of Flint

Mayor Karen Weaver

INTRODUCTION AND REVIEW OF FLINT'S GOVERNANCE STRUCTURE

November 13, 2015

Table of Contents

Section 1 Purpose of Meeting and Attendees

Section 2 City of Flint Overview
- Demographics
- History
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Section 6 Genesee County Circuit Court Order Issuing Preliminary Injunction against the City of Flint

Section 7 City of Flint Chief Legal Officer – Performance Deficiencies

Section 8 Local Financial Stability and Choice Act – Act 436 of 2012

Purpose of Meeting

An introduction and review of Flint's governance structure. Define the opportunities to best collaborate with the State of Michigan on how to make the City of Flint a better place to work, develop talent, live and raise a family.

Attendees

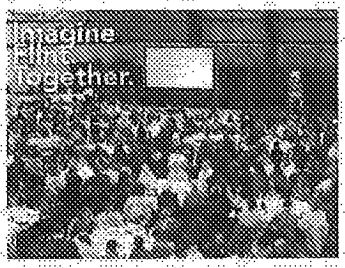
- Flint Mayor Karen Weaver
- Mayor Weaver's Transition Team Representatives
  - Reverend Henry Fuller
  - Aonie Gilcreast
  - Ehren Gonzales
  - Reverend Bryon Moore
  - Reverend Allen Overton
  - Woodrow Stanley

City of Flint - Demographics and History

A. Demographics

Demographic Summary – City of Flint – 2000 to 2010			
	2000	2010	Total Change
Population	124,943	102,434	-22,509 (-18%)
Households	48,744	40,472	-8,272 (-17%)
Median Age	30.0	33.7	2.8 (9%)
Average Household Size	2.51	2.45	
Median Household Income	$26,121	$22,672	-$5,449 (-19%)
Average Household Income	$39,621	$30,826	-$8,795 (-22%)

Source: US Census, American Community Survey



B. City of Flint History

Flint is the largest city and county seat of Genesee County in the State of Michigan. It is located along the Flint River, 66 miles (106 km) northwest of Detroit.

According to the 2010 census, Flint has a population of 102,434 an 18% reduction from the 2000 census where it had 124,741 residents. It is the seventh largest city in Michigan. Genesee County comprises the entirety of Flint's metropolitan area, the fourth largest metropolitan area in Michigan with a population of 425,790 in 2010.

Founded as a village by fur trader Jacob Smith in 1819, Flint became a major lumbering area on the historic Saginaw Trail during the 19th century, and incorporated as a city in 1855. It later became a leading manufacturer of carriages and other vehicles earning it the nickname "Vehicle City".

In 1908, William Crapo Durant formed General Motors in Flint, and it was later the home of the Flint Sit-Down Strike of 1936–37 that played a vital role in the formation of the United Auto Workers. After World War II, Flint became an automobile manufacturing powerhouse for GM's Buick and Chevrolet divisions, both of which were founded in Flint. However, by the late 1980s the city sank into a deep economic depression after GM closed and demolished several factories in the area, the effects of which remain today.

In the mid-2000s, it became known for its high crime rates. Since this time, Flint has been ranked among the "Most Dangerous Cities in the United States", with a per capita violent crime rate seven times higher than the national average. The city was under a state of financial emergency from 2011 to 2015, the second in a decade.

On November 3, 2015, Flint residents elected Dr. Karen Weaver as their first female mayor. Mayor Weaver was elected with over 56% of vote.
(Source: Wikipedia)

C. Key Facts and Challenges

- Flint is a prime example of an industrial city that was built around one key industry
- Population is projected to drop 20K between 2010 and 2020 *(source: US Census, American Community Survey)*
- In August 2015, Flint's unemployment was 9.7% which was almost 2 times higher than the national average
- In 2013, Flint had 48 murders, which is over ten times higher than the national average of 4.5 murders per 100,000 residents *(source: city-data.com crime index)*
- In 2013, Flint's crime rate was 810 crimes per 100,000 residents, 2.75 times the national average *(source: city-data.com crime index)*
- 72% of all houses in Flint were built before 1970 *(source: US Census, American Community Survey)*

Road Map to Reinventing Flint:

The Weaver Administration will be laser focused on reinventing Flint and helping grow the economy. The Mayor's Administration will be committed to involving residents, businesses, and workers in the reinvention process in order to craft a common community vision for Flint's future. Collectively, the community working together will be the foundation to making real sustainable progress on the City's toughest challenges. The Administration will develop key initiatives to address Flint's difficult economic situation as well as how to deliver improved services to city residents, including fighting crime. To develop and deliver on these key initiatives the following is in progress:

- Transition Team
- 100 Day Plan outlining key initiatives and deliverables. I.e.:
  - Request City of Flint to get emergency designation for water supply; collaboration with federal and state legislators and the state executive offices
  - Benchmark meetings with other Michigan city administrations
  - Meetings with key stakeholders
  - Conduct Citizen Survey
  - Others
- Immediate Listening Tour (Town Hall Meetings) in the City's nine wards
- Meeting with Director of the Michigan Office of Urban and Metropolitan Initiatives (Harvey Hollins)
- Restructuring plan outlining vision, goals and key objectives
  - Discussions with all City department heads

Top Priorities

Mayor Weaver believes in Flint's future. Her mission now is to restore the public's trust in city government. As such, her top priorities include:

1. **Public Safety** – Safe neighborhoods, working with local law enforcement and state police
2. **Education** – to be a valued partner with Flint Public Schools, higher education and engage other community partners
3. **Economic Development** – Create more and better jobs, collaborating with the private and public sectors, and including Foundations
4. **Clean, Affordable Water** – on behalf of all city residents, working with local, state and federal leadership to improve Flint's water quality and affordability
5. **Citizen Engagement** – ensuring all members of our community are involved in Flint City government and quality of life initiatives
6. **Restore Public Trust** – Mayor Weaver is committed to establish a team with three basic traits: ***competence, capacity and character***

Governance Structure

Mayor Weaver was elected to uphold the Michigan and US Constitution and follow the Flint City Charter.

The City Administrator recently restated her authority regarding Mayoral appointments. In the best interest of the City of Flint residents, Mayor Weaver would like a comprehensive review the current governance structure. The Mayor is committed to charting a path to return Flint to full local governance and establishing a partnership with state government.

- **Shared Responsibility.** In concert with Flint's City Administrator, Mayor Weaver is proposing immediate joint reviews with all department heads in order to evaluate performance and effectiveness. It is essential for the Mayor to be the face of city government. All media interaction should be coordinated with the Mayor's office.

- **Mayoral Appointments.** Mayor Weaver believes in shared responsibility. To fulfill voter mandated requirements, the Mayor desires immediate transfer of some responsibilities and respectfully requests authority for the following appointments:

  1. **Police Chief**
  2. **Fire Chief**
  3. Finance Director
  4. Planning and Development Director
  5. **Public Works Director**

     - Lack of qualification. The current DPW Director failed to control bacteria, total trihalomethanes (TTHM) and lead in water. *(Fonger, R. (2015, November 11), Flint Water Crisis.* The Flint Journal, *http://www.mlive.com/flint-water-crisis)*

  6. **Chief Legal Officer**

     - Liability issues. Performance failure by current City Attorney, including missing appeal deadline; Court of Appeals denied based on 'Untimeliness'. *(See section 5).* The city is already been found liable in court for the illegal water rate hike; the case is pending in the court, 11/13/15 at noon; estimated liability of over $15M.
     - Loyalty is determined by obligation. The City Attorney's loyalty is with the previous Mayor. He has/is making decisions based on politics not by rule of law.
     - Conclusion: there are numerous performance related deficiencies regarding the City Attorney as outlined in the document in section six.

  7. **Chief Personnel Officer**

- **Tier II cabinet positions**. Request authority for: Mayor's assistant, constituent services, communications, equal opportunity/contract compliance and gov't affairs.

Mayor Weaver appreciates the opportunity to discuss these recommendations with Governor Rick Snyder's Team and welcomes an ongoing dialogue concerning Flint's reinvention and a continued partnership with the State of Michigan.

EMERGENCY MANAGER
CITY OF FLINT
GENESEE COUNTY MICHIGAN

ORDER No. 3

CITY ADMINISTRATOR

BY THE POWER AND AUTHORITY VESTED IN THE EMERGENCY MANAGER ("EMERGENCY MANAGER") FOR THE CITY OF FLINT, MICHIGAN ("CITY") PURSUANT TO MICHIGAN'S PUBLIC ACT 436 OF 2012, LOCAL FINANCIAL STABILITY AND CHOICE ACT, ("PA 436"); GERALD AMBROSE, THE EMERGENCY MANAGER, ISSUES THE FOLLOWING ORDER:

Pursuant to PA 436, the Emergency Manager has broad powers in receivership to rectify the financial emergency and to assure the fiscal accountability of the City and its capacity to provide or cause to be provided necessary services essential to the public health, safety and welfare; and

Pursuant to PA 436, the Emergency Manager acts in place of local officials, specifically the Mayor and City Council, unless the Emergency Manager delegates specific authority; and

Pursuant to PA 436, the Emergency Manager has broad power to manage the local government, and may issue orders to elected and appointed officials necessary to accomplish the purpose of the Act. An Order issued under PA 436 is binding on the person to whom it is issued; and

IT IS HEREBY ORDERED:

The City Administrator shall serve as the City's Chief Administrative Officer at the pleasure of the Mayor, City Council and Emergency Manager or Receivership Advisory Transition Board (hereinafter "Board"), in accordance with the provisions of her contact with the City of Flint

dated February 23, 2015, and is charged with implementing executive and legislative directives and policies of the Mayor and City Council, subject to oversight of the Board, including strategic planning and budgeting, and with directing the management of day-to-day-administrative activities and appointed staff officials.

Consistent with the City Administrator Employment Agreement and Position Description, and subject to the approval and directives of the Board, the City Administrator shall have the following authority, duties and responsibilities notwithstanding any provision of the City Charter or Code of Ordinances:

1. Serve, advise and report to the Mayor with respect to the Mayor's executive functions, as set forth in Charter §4-101.

2. Serve and advise the Council with respect to the Council's legislative functions, as set forth in Charter §3-101.

3. Serve, advise and report to the Emergency Manager, as required by Public Act 436, so long as an Emergency Manager is in place.

4. Serve, advise and report to the Board, including:
    a. Advise and report to the Board as required by Public Act 436;
    b. Fully comply and assist the Board in meeting all duties assigned to it by the governor pursuant to MCL 141.1563(h);
    c. Provide all budgetary information requested by the Board;
    d. Serve as the primary contact between the Board and the City, including any department heads, officers, attorneys, accountants, employees, and any other contractors or consultants hired by the City to assist the City Administrator or the City in the discharge of powers, duties, functions, and responsibilities;
    e. Promptly and effectively communicate with the Board regarding any matter that may have a significant financial impact on the City.

5. Direct City department heads in carrying out the daily activities of the City, in the assembly of financial and management information; and in the gathering and assembly of pertinent data and information and recommendations for the Mayor and City Council's consideration in making executive determinations and policy.

6. Translate executive decisions and policies of the Mayor into administrative procedures for the cost effective and efficient operation of the City.

7. Implement legislative action of the City Council.

8. Monitor and manage the administrative inter-activity of the City departments so the delivery of public services represents an efficient, effective, and coordinated effort.

9. Interact with other governmental agencies as requested by the Mayor or City Council.

10. Prepare and review correspondence, reports, speeches, resolutions, and other material for public relations purposes. Answers citizen and official inquiries regarding City policy matters.

11. In consultation with the Mayor, direct the assembly of information and items for consideration by the Council, and provide them to the City Clerk for inclusion on the appropriate agendas.

12. Regularly consult with the Mayor in the development of actions with respect to the Mayor's executive functions, and with matters relating to the daily administrative functions of the City, including the evaluation of the performance of department heads, and the resolution of customer service issues.

13. Except to the extent prohibited by or in material conflict with applicable laws and authorities, the City Administrator or designee shall attend all meetings of the City Council, both public and closed, with the exception of those closed meetings devoted to the consideration of any action or lack of action on, or pursuant to, this Agreement, or any amendment thereto, or the City Administrator's evaluation. The City Administrator shall advise members, and make recommendations consistent with policy objectives, strategic planning and administrative activities.

14. Attend public meetings and events; give presentations and information to the public regarding matters of City business.

15. Manage and oversee all department heads, division heads, managers and non-elected City employees. This shall include an annual written performance evaluation of all department heads, including those identified in paragraphs 15, 16 and 17.

16. Recommend, subject to the Mayor's approval, the following appointments:

    a. Chief of Police;
    b. Fire Chief;
    c. Director of Finance;
    d. Planning & Development Director;
    e. Director of Department of Public Works;
    f. Chief Legal Officer;
    g. Chief Personnel Officer.

17. Recommend, subject to the Council's approval, the following appointments: City Clerk and City Auditor.

18. With the exception of those positions set forth in paragraphs 16 and 17, appoint all department heads, division heads and management positions, including the City Treasurer, Purchasing Director and the City Assessor, subject to any collective bargaining agreement(s) that may be applicable.

19. Ensure that all appointment processes, whether by the Mayor, Council or City Administrator, are open, competitive, and administered by the Human Resources Department or a qualified recruitment firm, with selection of the most qualified candidate to be based on defined education, experience, and professional standards appropriate to the position.

20. All appointments made pursuant to paragraphs 15, 16 and 17 shall serve at the pleasure of the City Administrator based on performance review.

21. Review current and potential litigation and labor disputes with the City Attorney and Mayor, and as needed the Board, and have complete decision making authority on behalf of the City, on all matters of litigation and labor disputes, including the ability to settle or initiate lawsuits and resolve labor disputes. The Mayor and City Council shall be consulted on such matters prior to implementation.

22. Negotiate all collective bargaining agreements on behalf of the City.

23. Work collaboratively with the City Council, the Mayor, other City or State officials and the Board to successfully transition to the termination of receivership for the City by supporting, implementing, and maintaining the financial and operating plans and the reforms instituted by the City's emergency managers, including but not limited to, the financial and operating plan for the city under Section II Act 436, and by providing appropriate training and explanation of City operations.

24. Serve as an official City representative before the Board, State departments and agencies, and the Michigan Legislature, with assistance from the Finance Director and the Mayor.

25. Be responsible for and vested with full authority necessary to effectively direct and supervise the day-to-day operations of the City by seeing that all laws and ordinances are faithfully executed, preparing the proposed annual budget as recommended by the Finance Director and any accounting firm retained by the City, and supervising the expenditures of all sums appropriated to and the attainment of all objectives established for departments of the executive branch of the City and working collaboratively with all officers and officials to effectively execute daily operations.

26. Ensure that a rolling six-year capital improvement plan is annually prepared in accordance with applicable law and the City's Code of Ordinances. Coordinate with the Mayor on the annual preparation of a rolling two-year budget.

27. Review, approve and co-sign with the Mayor all contracts on behalf of and entered into by the City and modify or terminate any current contract with the City.

28. Approve all financial policies, City policies and procedures, job descriptions and personnel policies for the City, after consultation with the Mayor and City Council.

29. Designate check signers on all City bank accounts.

30. Refer City Council communications to the appropriate City employee or investigate such matter(s) and inform the City Council of the results of such efforts. Provided, however, when responding to City Council referrals, the City Administrator shall have discretion to utilize the personnel and resources the City Administrator deems reasonable and so as to avoid unnecessary interruption of services or incurrence of unnecessary costs.

31. Any investigation by the City Council, as contemplated by Charter §3-205 and §3-206, including the power to subpoena witnesses, shall be subject to the City Administrator's review and approval, so as to avoid unnecessary interruption of services or incurrence of unnecessary costs.

32. In the event the Mayor or Council fails to perform any duty or take any required action after having been afforded a reasonable opportunity to do so, the City Administrator may perform the duty or function of the Mayor or Council upon approval of the Board.

This Order may be amended, modified, repealed or terminated by any subsequent Order issued by the Emergency Manager.

Dated: 4/16/15 By: _____

Gerald Ambrose
Emergency Manager
City of Flint

cc: State of Michigan Department of Treasury
Mayor Dayne Walling
Flint City Council
Inez Brown, City Clerk

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EMERGENCY MANAGER
CITY OF FLINT
GENESEE COUNTY, MICHIGAN

ORDER NO. 20

MEASURES TO RECTIFY FINANCIAL EMERGENCY AND ALLOCATION OF RESPONSIBILITIES IN THE EVENT OF THE APPOINTMENT OF A RECEIVERSHIP TRANSITION ADVISORY BOARD

BY THE POWER AND AUTHORITY VESTED IN THE EMERGENCY MANAGER ("EMERGENCY MANAGER") FOR THE CITY OF FLINT, MICHIGAN ("CITY") PURSUANT TO MICHIGAN'S PUBLIC ACT 436 OF 2012, LOCAL FINANCIAL STABILITY AND CHOICE ACT, ("PA 436"); GERALD AMBROSE, THE EMERGENCY MANAGER, ISSUES THE FOLLOWING ORDER:

Pursuant to Public Act 436, the Emergency Manager has broad powers in receivership to rectify the financial emergency and to assure the fiscal accountability of the City of Flint and its capacity to provide or cause to be provided necessary services essential to the public health, safety and welfare; and

Pursuant to Public Act 436, the Emergency Manager acts in place of local officials, specifically the Mayor and City Council, unless the Emergency Manager delegates specific authority; and

Pursuant to Public Act 436, the Emergency Manager has broad power to manage the local government, and may issue orders to elected and appointed officials necessary to accomplish the purpose of the Act; and

Pursuant to Public Act 436, the Emergency Manager is issuing this order to rectify the Financial Emergency and allocate responsibilities in the event of the appointment of a Receivership Transition Advisory Board:

1. The purpose of PA 436, which became effective on March 28, 2013, is to safeguard and ensure the financial accountability of local units of government; to preserve the capacity of local units of government to provide or cause to be provided necessary services essential to the public health, safety, and welfare; to provide for review, management, planning, and control of the financial operation of local units of government and the provision of services by local units of government; to authorize a declaration of the existence of a financial emergency within local units of government; to prescribe remedial measures to address a financial emergency within local units of government; to provide for the appointment and to prescribe the powers and duties of emergency managers for local units of government; and to provide for the termination of a financial emergency within a local unit of government.

2. Section 23 of PA 436 authorizes the Governor, before removing a local government from receivership, to appoint a Receivership Transition Advisory Board (Board) to monitor the affairs of the local government until the receivership is terminated.

3. By letter dated April 28, 2015, I recommended that Governor Snyder appoint a Receivership Transition Advisory Board for the City.

4. In the event that the Governor appoints a Receivership Transition Advisory Board (Board), this Order is issued to facilitate the effective and efficient operation of the City for the duration of the period that the Board is monitoring the affairs of the City and the City remains in receivership. City officials shall be governed by and perform the duties and functions set forth as follows:

   (a) **The Mayor and City Council shall implement all of the following financial best practices within the City and do all of the following:**

      1) Safeguard the financial stability of the City by seeking out, approving, and implementing cost-saving measures recommended by the City Administrator, the Board, or both.

      2) Work with the City Administrator and other City or State officials to successfully transition the City from receivership and eliminate financial stress within the City.

      3) Ensure that the City makes annually required contributions to the City's pension funds. Any changes to the City's pension plans, including an annual

contribution which is less than is actuarially determined, may only be made with the approval of the Board and the State Treasurer.

4) The City Council shall not interfere with the employees of the City. The City Administrator shall be the authorized management contact for all employees.

5) Fill within 120 days and with the approval of the Board, any vacancy in the Office of City Administrator with an individual that meets qualifications outlined in the job position description and established by the Board. Upon such a vacancy the City shall engage a Board-approved and professionally recognized search firm to identify and locate qualified candidates. Without the approval of the Board, neither the City Council nor the Mayor may terminate the City Administrator, or any other City officer or employee.

6) Shall observe the budgetary process as detailed in ordinance. Any budget adoption or subsequent amendment must be submitted for Board approval prior to implementation. The City shall comply with the two-year budget, which the Emergency Manager adopted pursuant to §21(1) of PA 436; however the two-year budget may be amended by approval of the Board and State Treasurer. Proposed budget amendments must be submitted to the Board at the next Board meeting that follows the event or discovery that necessitates the amendment.

7) Adopt ordinances and resolutions not inconsistent with this Order and Michigan law. Ordinances and resolutions are subject to approval of the Board before taking effect, except as otherwise directed by the Board, including but

not limited to, ordinances or resolutions providing for the appointment or reappointment of individuals to City offices.

8) Issue or otherwise incur debt with the approval of the Board. As used in this paragraph, "debt" means that term as defined under the Revised Municipal Finance Act, 2001 PA 34, MCL 141.2101 to 141.2821.

9) Post City Council meeting agendas on the City's website no less than 24 hours prior to each meeting.

10) Document all of the City's outstanding liabilities, including payables and debt obligations. The City shall provide a report on the liabilities to the Board upon request.

11) Adopt or alter policies and procedures for conducting the operations of the City Council, as needed, subject to approval by the Board.

12) Verify the qualifications and eligibility of any individual being considered for appointment or reappointment to the City Council or any other City board, commission, or committee prior to said appointment or reappointment. An individual not eligible for appointment or reappointment shall not be approved.

13) Review not less than annually an inventory of City assets.

14) Review not less than annually a report on business licenses issued by the City.

15) Review licensing fees and all other City fees on an annual basis and make recommendations for any adjustments, subject to approval by the Board.

16) Annually review the status of tax collections and outstanding property taxes owed to the City and report findings to the Board. The City must maintain

adequate assessment records in compliance with state statute, State Tax Commission rules and guidelines, and implement any corrective actions necessary. The City shall implement a full reappraisal within a time frame agreed to with the State Tax Commission.

17) City owned parcels shall be appraised prior to sale and sold by a sealed bid process absent approval by the Board to sell by another method.

18) Review election precinct sites and approve expenses associated with elections, consistent with the budget then in effect for the City.

19) Review and act by resolution on proposed economic or redevelopment projects recommended for approval by the City Administrator. In the event that the City Council fails to approve such a recommended action, the Council shall record the rational for its disapproval in writing and submit this document to the Board within 14 days of the council meeting in which the economic or redevelopment project was voted upon. The Board shall then evaluate the City Administrator's recommendation for the economic or redevelopment project and the City Council's rational against it. The Board shall select the course of action which, in the Board's sole discretion, best serves the interests of the citizens of the City of Flint. If the Board endorses the proposed economic or redevelopment project, the City shall implement it promptly without Council approval.

20) Review and act by resolution on proposed intergovernmental agreements or service consolidation plans recommended by the City Administrator. In the event that the City Council fails to approve such a recommended action, the

Council shall develop and submit an alternate proposal which achieves equal or greater savings to the Board within 14 days of the council meeting in which the proposed intergovernmental agreements or service consolidation plan was voted upon. The Board shall then evaluate the City Administrator's recommendation and the City Council's proposal and select the course of action which best serves the interests of the citizens of the City of Flint. That proposal shall be implemented without Council approval.

21) Comply with local ordinance concerning the purchase of and contract for goods and services.

22) Approve any changes to the job description of the City Administrator, any contract with the City Administrator, and any policies or procedures applicable to the City Administrator with the approval of the Board.

(b) **The City Administrator shall implement all of the following financial best practices within the City and do all of the following:**

1) Fulfill the responsibilities and duties of Emergency Manager Order Number 3, dated April 10, 2015.

2) Be responsible for effectively overseeing the day-to-day operations of the City, consistent with Emergency Manager Orders.

3) Be the sole authority concerning modifications to compensation, including appointed officers and other City employees. This provision does not apply for elected officers within the City.

4) Notwithstanding the provisions of paragraph 20 of Emergency Manager Order No. 3 (issued April 10, 2015), termination of any department head shall require the approval of the Board.

5) Negotiate and recommend approval to the Board proposed collective bargaining agreements, subject to limitations on collective bargaining under MCL 141.1567(3).

6) Submit regular reports to the Mayor, City Council, and Board regarding the overall operation and direction of the City and regularly report on his or her activities to the Mayor, the City Council, and the Board.

7) Serve as the official City representative to the Board on behalf of the Mayor and the City Council.

8) Work with the City Council, the Mayor, and other City or State officials to successfully transition the City from receivership and eliminate financial stress within the City.

9) Ensure that the City is in full compliance with Public Act 436, all Emergency Manager Orders, local ordinances, and applicable state and federal laws.

10) The City Administrator may be removed only in accordance with the provisions set forth by Emergency Manager Orders and the City Administrator's Employment Agreement. Complaints or grievances against the City Administrator from the Mayor or City Council shall be provided to the City Administrator in writing. The City Administrator may not be terminated, suspended, or placed on administrative leave without the approval of the Board.

11) Shall observe and comply with the Purchasing Ordinance, Ordinance #3865 However in the event that the Board documents abuse of the process outlined in ordinance, the Board may resolve to review all purchases over $15,000.00. If this occurs, Board approval is required in addition to approvals required by ordinance.

12) Provide to the Mayor, City Council, and the Board by the 20th calendar day following the end of each month, or when directed by the Board, monthly budget-to-actual reports, balance sheets, and a cash balances report by fund and by bank account, as prepared by the Finance Director. These reports are to be reviewed monthly with the Mayor. Additionally, if requested by the Board, monthly reports shall be submitted to the Board which detail all of the overtime expenses that the City has incurred during the previous 30 days.

13) Provide the Board with a plan to address and resolve all deficiencies reported in the most recent audited financial statements.

14) Serve as the primary contact between the Mayor, City Council, and the employees of the City.

15) Faithfully execute the duties of the City Administrator.

(c) **The Mayor, City Administrator, and City Council shall implement all of the following financial best practices within the City and do all of the following:**

1) Comply with all financial policies and ordinances, including but not limited to, the development and update of the Strategic Plan, Ordinance #3854; Development and Adoption of Biennial Budgets and Three-Year Financial Forecasts, Ordinance #3855; Amendment of Adopted Budgets, Ordinance

#3856; Fund Balance Policy, Ordinance #3851; Budget Stabilization Fund, Ordinance #3853; Other Post-Employment Benefits, Ordinance #3852; and the Purchasing Ordinance, Ordinance #3865. Additionally, continue to adopt, subject to Board approval, any policies and procedures necessary to implement best financial practices by the City.

2) Work with the Board to successfully transition the termination of receivership for the City by supporting, implementing, and maintaining the financial and operating plan and the reforms instituted by the City's emergency managers, including but not limited to, the financial and operating plan for the City and by providing appropriate training and explanation of City operations.

3) Provide to the Board, in a timely manner, any documents, records, or other information requested by the Board or its staff. Appear before the Board to provide testimony, documents, records or other information when requested by the Board or its staff.

4) Per previously adopted Orders, continue to develop and maintain a rolling five-year financial operations plan, in coordination with the City Administrator and City Finance Director, and ensure that the financial operations plan is prepared in accordance with applicable law. The five-year financial operations plan and any subsequent amendments are subject to Board approval.

5) Per previously adopted Orders, continue to develop and maintain a rolling six-year Capital Improvements Plan (CIP), in coordination with the City Planning Commission and ensure that the CIP is prepared annually in accordance with

applicable law. The CIP, and any subsequent amendments, are subject to approval by the Board.

6) Annually budget for and receive training on the Open Meetings Act, effective meeting management and parliamentary procedures, council-manager relations, analyzing financial statements, and reports from professionally recognized organizations. The City will pay for training costs. Budget for and ensure that all planning commissioners, zoning board of appeals members, and members of the board of review annually receive proper training to assist them in the fulfillment of their roles and responsibilities and remove members who fail to receive adequate training.

7) Annually review, upon preparation and adoption of the budget, all fees and make recommendations subject to approval of the Board. Should the City Council fail to adopt a budget by the first (1st) Monday in June, fail to approve a proposed budget amendment in a timely manner, or fail to ratify a fee schedule recommended by the City Administrator, the City Administrator shall present such budget, budget amendment, or fee schedule to the Board for approval, and the Board may approve the budget, budget amendment, or fee schedule on behalf of the City.

8) Continue to implement any steps necessary to successfully complete the district court consolidation process.

9) Take all steps necessary to successfully establish, develop, and complete the Karegnondi Water Authority (KWA) project.

10) Take action at the same meeting on all items duly submitted by the City Administrator to the City Council agenda unless the City Administrator agrees that the items should be postponed to the next subsequent meeting.

11) All City elected officials, officers, and employees shall abide by all State regulations and statutes.

(d) **Limitations upon the City Council, Mayor, and the City Administrator:**

1) The City Council, Mayor, or City Administrator shall not revise any Order that was implemented by the Emergency Manager during his or her term prior to one year after the termination of receivership. Amendments to Emergency Manager Orders may be made pursuant to the procedures identified in Section 5.

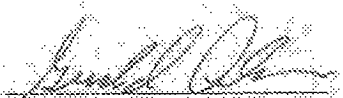
2) There shall be no funding for the Office of the Ombudsman or the Civil Service Commission.

5. Except as otherwise provided in this paragraph, the power to rescind or amend any order issued by the Emergency Manager shall rest solely with the Board, with approval by the State Treasurer, to the extent permitted under PA 436. This Order may be amended, modified, repealed, or terminated by a subsequent Order issued by an Emergency Manager.

6. This Order amends all previous Emergency Manager Orders to the extent that they are inconsistent.

7. This Order shall have immediate effect.

Date: 4/25/16

By: 
Gerald Ambrose
Emergency Manager
City of Flint

GENESEE COUNTY CIRCUIT COURT ORDER ISSUING PRELIMINARY INJUNCTION AGAINST THE CITY OF FLINT

NOT APPEALED BY THE CHIEF LEGAL OFFICE
MISSED THE APPEAL DEADLINE; COURT OF APPEALS DENIED ON UNTIMELINESS

- Illegal Water Rates Charged by City of Flint Established
- Liens Placed on Real Property Owned by Flint City residents
- Illegal water shut-offs
- Financial Exposure to City of Flint is estimated in millions

A TRUE COPY
Genesee County Clerk

STATE OF MICHIGAN

IN THE CIRCUIT COURT FOR THE COUNTY OF GENESEE

LARRY SHEARS AND MARGARET FRALICK, in their individual capacities, and as class representatives of all other similarly situated plaintiff class members.

PLAINTIFFS.

Vs.

DOUGLAS BINGAMAN, individually and in His official capacity as Treasurer of the City of Flint, **DARNELL EARLEY,** individually and In his official capacity as Emergency Manager Of the City of Flint, And, **THE CITY OF FLINT, MICHIGAN**, a municipal corporation.

DEFENDANTS.

JUDGE: Archie L. Hayman
P37516
CASE NUMBER: 14- 103476-CZ

FILED
AUG 07 2015
GENESEE COUNTY CLERK

Valdemar L. Washington (P27165)
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810.407.6868

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Anthony Chubb (P72608)
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Flint, MI 48502
810.766.7146

PRELIMINARY INJUNCTION

At a Session of Said Court
Held in the Courthouse
On the 7th Day of August, 2015

PRESENT HONORABLE ARCHIE L. HAYMAN, CIRCUIT COURT JUDGE

THIS MATTER, having come on to be heard by Plaintiffs' Motion for Issuance of a Preliminary Injunction, the City of Flint having responded thereto, the Court having read the same, taken testimony, and received exhibits into evidence, in Open Court, and being otherwise duly advised in the premises;

IT IS THEREFORE ORDERED AND ADJUDGED that Plaintiffs' Motion for Issuance of a Preliminary Injunction be and the same is hereby **GRANTED** for the reasons stated on the Record in Open Court, which include the following:

1. The September 16, 2011 35% water and sewer rate increases, that have been collected by the City of Flint between September 16, 2011 and the date hereof, were not implemented in conformity with Flint City Ordinances 46 – 52.1 and 46 – 57.1.

2. The water readiness to serve charges that have been collected by the City of Flint from September 16, 2011 to the date hereof are not calculated nor authorized in accordance with Flint City Ordinance 46 – 52.

3. The July 1, 2012 12.5 % water rate increase and 45% sewer rate increase implemented by Emergency Manager Michael Brown under Public Act 4 of 2011 were implemented in conformity with Flint City Ordinances 46 – 52.1 and 46 – 57.1.

4. Following the rejection of Public Act 4 of 2011 there was no Order signed by any later Flint Emergency Manager that adopted or implemented the September 16, 2011 water and sewer rate increases and the July 1, 2012 water and sewer rate increases.

5. The liens placed against the real property of the City of Flint's delinquent water and sewer customers were due to delinquencies caused by the September 16, 2011 and July 1, 2012 water and sewer rate increases and the charging of the water readiness to serve charges from September 16, 2011 to the date hereof.

6. The City of Flint has disconnected the water service for its delinquent water and sewer customers due to their failure to pay delinquencies caused by charges related to the September 16, 2011, July 1, 2012, water and sewer rate increases, and water readiness to serve charges.

IT IS FURTHER ORDERED AND ADJUDGED that the City of Flint, its agents, employees, servants, attorneys, and those other persons in active concert or participation with it, be and the same are hereby **ENJOINED, pursuant to MCR 3.310,** from the following actions, until further Order of this Court:

1. Charging and collecting a water readiness to serve charge, also known as the water service charge from its water and sewer customers until it comes into compliance with Flint City Ordinance 46 – 52.
2. Charging and collecting water and sewer rates that include the September 16, 2011 35% rate increases.
3. Disconnecting the water service for its delinquent water and sewer customers wherein the delinquency arose between September 16, 2011 and the date hereof.
4. Placing any further liens against the real property of its delinquent water and sewer customers for delinquencies that occurred between September 16, 2011 and the date hereof.
5. Taking any monies from the Water Supply Fund, which include the water and sewer funds/payments, and using those monies to pay general obligations.

IT IS FURTHER ORDERED AND ADJUDGED that no Security is required of Plaintiffs herein as this matter is in the public interest as the actions of the City of Flint that are being enjoined are actions that Defendant City of Flint has been engaged in since September 16, 2011, which violated its own Ordinances.

IT IS FURTHER ORDERED AND ADJUDGED that the parties are to meet and negotiate the repayment of 15.7 million dollars to the Sewer fund by the General Fund and are to return to this Court on November 13, 2015 if they are unable to reach agreement on the return of the 15.7 million dollars to the Sewer Fund.

The parties are to provide this Court with their proposals for repayment of the 15.7 million dollars to the Sewer fund, by October 31, 2015, if they are unable to reach an agreement on the process of repayment of the 15.7 million dollars to the Sewer fund by the General Fund.

The City of Flint shall immediately establish funds for its water and sewer funds, also known as the Water Supply fund, that are in compliance with the Revenue Bond Act of 1933 as recited by the Court in open Court, and provide the Court with proof of the same by 9/30, 2015.

The City of Flint shall provide proof to this Court and Plaintiffs' Counsel that it is no longer using water and sewer funds/payments to pay general obligations by 9/30, 2015.

The Finance Department of Defendant City of Flint shall prepare a document/report that creates for this Court a history of the expenditures for the Sewer fund between 2007 and 2013 that reflects how those expenditures would have occurred if

the 15.7 million dollars had not been transferred to the General Fund/Lawsuit Settlement Fund, and provide the same to the Court and Plaintiffs' Counsel by 9/30 2015.

The issue of Emergency Manager Brown's July 1, 2012 12.5% water rate increase and 45% sewer rate increase is hereby preserved until the Court has reviewed the document/report prepared by the City of Flint's Finance Department.

IT IS FURTHER ORDERED AND ADJUDGED that the parties shall attend a Pre-Trial Conference for this case to be held on November 13, 2015 at 12:00 PM.

This is not a final Order and does not dispose of all of the issues in this case.

IT IS SO ORDERED.

ARCHIE L. HAYMAN, P37516
CIRCUIT COURT JUDGE
AUGUST 17, 2015

The above Order is approved as to Form:

Anthony Chubb, P 72608
Deputy City Attorney

Prepared By:

Valdemar L. Washington
Attorney for Plaintiffs
718 Beach Street/ P.O. Box 187
Flint, MI 48501-0187
810.407.6868

Peter Bade – City of Flint Chief Legal Officer – Performance Deficiencies

1. In the lawsuit of *Scott Kincaid et. al vs City of Flint*, Michigan Court of Appeals Number 318906 his office missed the September 3, 2015 filing date for their Application for Leave to the Michigan Supreme Court. **Exhibit 1**

2. In the same lawsuit when it was still in Genesee County Circuit Court under case number 12-098490-CZ the plaintiffs first raised the issue that the City of Flint was illegally collecting its water service charge, in violation of its ordinance 46-52, **Exhibit 2** on December 28, 2012 when they filed a motion asking for leave of the Court to file a First Amended Complaint. Attached to the motion was a proposed First Amended Complaint that contained the allegations about the illegal collection of the water service charge, in violation of ordinance 46-52. Peter Bade did not look into those allegations at that time, or if he looked into them he did not advise the Emergency Manager to issue the required resolution, chart, and to file them with the City Clerk, thereby increasing the amount of money that the plaintiffs are now seeking in the Larry Shears case by **$28,546,994.90**. **Exhibit 3**

3. When Mayor Walling illegally increased the water and sewer rates and service charges by 22% in January 2011 Peter Bade, as the City of Flint's Chief Legal Officer did not advise the Mayor that those increases were in violation of Flint City Ordinances 46 – 52.1 and 46-57.1. **Exhibit 4**

4. When Mayor Walling illegally increased the water and sewer rates and service charges by 35% in September 2011 Peter Bade, as the City of Flint's Chief Legal Officer did not advise the Mayor that those increases were in violation of Flint City Ordinances 46 – 52.1 and 46-57.1. **Exhibit 4**

5. When Emergency Manager Michael Brown issued his Order Number 31 on May 30, 2012 "ratifying" the September 16, 2011 35% water and sewer increases **Exhibit 5** Peter Bade failed to advise Manager Brown that the word "ratify" did not appear in Public Act 4 of 2011, the law that gave him his powers as an emergency manager. **Exhibit 6 – Pages 8 and 9**

6. Peter Bade failed to advise the Mayor or any Emergency Mangers that using the restricted water and sewer monies to pay general obligations was a violation of the Michigan Revenue Bond Act § 141. 262. **Exhibit 7**

7. Peter Bade hired Miller Canfield to represent the City of Flint in the Larry Shears lawsuit after 9/2/15, when he was made aware that they were one of the targets for funding settlement of the water refund lawsuits. **Exhibit 8**

8. Peter Bade failed to secure the permission of class counsel, Val Washington to send notices about the Larry Shears case to water and sewer customers. **Exhibit 9**

LOCAL FINANCIAL STABILITY AND CHOICE ACT (EXCERPT)
Act 436 of 2012

141.1563 Receivership transition advisory board.

Sec. 23. (1) Before removing a local government from receivership, the governor may appoint a receivership transition advisory board to monitor the affairs of the local government until the receivership is terminated.

(2) A receivership transition advisory board shall consist of the state treasurer or his or her designee, the director of the department of technology, management, and budget or his or her designee, and, if the local government is a school district, the superintendent of public instruction or his or her designee. The governor also may appoint to a receivership transition advisory board 1 or more other individuals with relevant professional experience, including 1 or more residents of the local government.

(3) A receivership transition advisory board serves at the pleasure of the governor.

(4) At its first meeting, a receivership transition advisory board shall adopt rules of procedure to govern its conduct, meetings, and periodic reporting to the governor. Procedural rules required by this section are not subject to the administrative procedures act of 1969, 1969 PA 306, MCL 24.201 to 24.328.

(5) A receivership transition advisory board may do all of the following:

(a) Require the local government to annually convene a consensus revenue estimating conference for the purpose of arriving at a consensus estimate of revenues to be available for the ensuing fiscal year of the local government.

(b) Require the local government to provide monthly cash flow projections and a comparison of budgeted revenues and expenditures to actual revenues and expenditures.

(c) Review proposed and amended budgets of the local government. A proposed budget or budget amendment shall not take effect unless approved by the receivership transition advisory board.

(d) Review requests by the local government to issue debt under the revised municipal finance act, 2001 PA 34, MCL 141.2101 to 141.2821, or any other law governing the issuance of bonds or notes.

(e) Review proposed collective bargaining agreements negotiated under section 15(1) of 1947 PA 336, MCL 423.215. A proposed collective bargaining agreement shall not take effect unless approved by the receivership transition advisory board.

(f) Review compliance by the local government with a deficit elimination plan submitted under section 21 of the Glenn Steil state revenue sharing act of 1971, 1971 PA 140, MCL 141.921.

(g) Review proposed judgment levies before submission to a court under section 6093 or 6094 of the revised judicature act of 1961, 1961 PA 236, MCL 600.6093 and 600.6094.

(h) Perform any other duties assigned by the governor at the time the receivership transition advisory board is appointed.

(6) A receivership transition advisory board is a public body as that term is defined in section 2 of the open meetings act, 1976 PA 267, MCL 15.262, and meetings of a receivership transition advisory board are subject to the open meetings act, 1976 PA 267, MCL 15.261 to 15.275. A receivership transition advisory board is also a public body as that term is defined in section 2 of the freedom of information act, 1976 PA 442, MCL 15.232, and a public record in the possession of a receivership transition advisory board is subject to the freedom of information act, 1976 PA 442, MCL 15.231 to 15.246.

History: 2012, Act 436, Eff. Mar. 28, 2013.

Compiler's note: Enacting section 2 of Act 436 of 2012 provides:

"Enacting section 2. It is the intent of the legislature that this act function and be interpreted as a successor statute to former 1988 PA 101, former 1990 PA 72, and former 2011 PA 4, and that whenever possible a reference to former 1988 PA 101, former 1990 PA 72, or former 2011 PA 4, under other laws of this state or to a function or responsibility of an emergency financial manager or emergency manager under former 1988 PA 101, former 1990 PA 72, or former 2011 PA 4, under other laws of this state shall function and be interpreted to reference to this act, with the other laws of this state referencing former 1988 PA 101, former 1990 PA 72, or former 2011 PA 4, including, but not limited to, all of the following:

(a) The charter township act, 1947 PA 359, MCL 42.1 to 42.34.

(b) 1966 PA 293, MCL 45.501 to 45.521.

(c) 1851 PA 156, MCL 46.1 to 46.32.

(d) The general law village act, 1895 PA 3, MCL 61.1 to 74.25.

(e) The home rule village act, 1909 PA 278, MCL 78.1 to 78.28.

(f) The fourth class city act, 1895 PA 215, MCL 81.1 to 113.30.

(g) The home rule city act, 1909 PA 279, MCL 117.1 to 117.38.

(h) The metropolitan transportation authorities act of 1967, 1967 PA 204, MCL 124.401 to 124.426.

(i) 1947 PA 336, MCL 423.201 to 423.217."

© Legislative Council, State of Michigan Courtesy of www.legislature.mi.gov

From: Egan, Paul <pegan@freepress.com>
Sent: Thursday, November 19, 2015 11:17 AM
To: Muchmore, Dennis (GOV)
Subject: Flint water

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Dennis: Some time ago I obtained former Treasurer Andy Dillon's appointment calendar, under FOIA.
On March 25, 2013, at 5 p.m., it lists: "Call with Dennis Muchmore regarding Flint Water Supply Alternatives."
Later that evening, the city council of Flint, which was under a state-appointed emergency manager, voted to switch its water supply from the city of Detroit to a new Karegnondi Water Authority.
Can you please call me to discuss your/the state's role in that decision?
Also, for another time, maybe in December, would love to do an exit interview before you leave your current post.
Thanks, Paul
o. 517-372-8660
c. PPI

From: Andy Dillon <adillon@conwaymackenzie.com>
Sent: Thursday, November 19, 2015 2:04 PM
To: Saxton, Thomas (Treasury); Muchmore, Dennis (GOV); Baird, Richard (GOV)
Subject: Fwd: Flint water

I am not anxious to respond to him but my experience of ignoring him hasn't been very productive.

He is focused in on a relevant question.

Andy Dillon
Conway MacKenzie Inc.
401 S. Old Woodward Avenue, Suite 340, Birmingham, MI 48009
248.952.8868 (office) | PPI 248.433.3143 (fax)
adillon@conwaymackenzie.com

---------- Forwarded message ----------
From: **Egan, Paul** <pegan@freepress.com>
Date: Thu, Nov 19, 2015 at 1:48 PM
Subject: Flint water
To: "ADillon@ConwayMacKenzie.com" <ADillon@conwaymackenzie.com>

Hi Andy: Why did the state and city opt to go with KWA for Flint water supply when the study you commissioned from Tucker, Young, Jackson, Tull found that going with KWA would be more costly than staying with DWSD? (Here is excerpt from p. 17):

"Based on the analysis, it is prudent to assume the KWA water supply option costs would be somewhere between the KWA-1 and KWA-2 options. Therefore, the analysis indicates that the two DWSD options of supplying 8 MGD on a maximum day and up to 8 MGD on average are the least cost options for Flint. These options allow Flint to maximize the use of existing assets; the City of Flint's (the Flint WTP) and DWSD's (the existing 72-inch main)."

How would you describe your role in the chain of decisions that led to Flint drawing its water supply from the Flint River?

The Flint City Council opted to go with the KWA on the evening of March 25, 2013. Your schedule shows you had a 5 p.m. phone conversation at 5 p.m. that day with Dennis Muchmore "regarding Flint Water Supply alternatives."

The next day, March 26, 2013, your schedule shows a 9 a.m. meeting at Treasury "regarding Flint water, a 1:30 p.m. phone call with Dan Wyant "regarding Flint/KWA," and a w p.m. meeting in Lansing with Flint Mayor Dayne Walling?

What do you recall about these conversations/meetings? Did Muchmore sign off on the switch to KWA on behalf of the governor?

Thanks, Paul Egan

Detroit Free Press

Cell PPI

From: Rep. Sheldon Neeley (District 34) <SheldonNeeley@house.mi.gov>
Sent: Monday, January 04, 2016 2:24 PM
To: GovernorsOffice; Snyder, Rick (GOV); Muchmore, Dennis (GOV)
Subject: Additional Steps for Flint

Governor Snyder,

In the interest of being sensitive to the unforeseen problems that will affect children of this Flint Water Crisis, I am formally requesting you to forgive the debt balance currently imposed on the Flint Community Schools. I make this request because this school district will have the majority burden of addressing issues relating to the lead intrusion into the blood of children in this school system. There will be untold problems for years to come that will require an already overwhelmed school district to be required to meet the needs of these children who are victims of this disaster.

Respectfully,

Sheldon Neeley
State Representative
34th District

From: Workman, Wayne (TREASURY)
Sent: Wednesday, April 08, 2015 11:46 AM
To: Muchmore, Dennis (GOV); Clement, Elizabeth (GOV)
Cc: Saxton, Thomas (Treasury)
Subject: Fwd: Fyi..I had hoped we would be announcing our action plan this week ,ie going forth with the GAC. Will see what we can do to get a release out...

Assume you saw this.

Sent from my iPhone

Begin forwarded message:

> **From:** Gerald Ambrose <gambrose@cityofflint.com>
> **Date:** April 7, 2015 at 8:27:36 PM EDT
> **To:** "Wayne Workman (TREASURY)" <workmanw@michigan.gov>, Edward Koryzno <koryznoE@michigan.gov>, Randy Burn <ByrneR1@michigan.gov>
> **Subject: Fyi..I had hoped we would be announcing our action plan this week ,ie going forth with the GAC. Will see what we can do to get a release out...**
>
> **Flint pastors plan news conference on 'lack of progress' on Flint water issues**
>
> FLINT, MI -- Concerned Pastors for Social Action plan to speak out on a "lack of progress" on Flint water issues Wednesday, April 8. The Rev. Alfred Harris, president of the Concerned Pastors, said his group will detail its concerns at the 1:30 p.m. news conference at City Hal Read More
> http://www.mlive.com/news/flint/index.ssf/2015/04/flint_pastors_plan_news_confer.html

From: Hollins, Harvey (GOV)
Sent: Wednesday, April 08, 2015 11:58 AM
To: Muchmore, Dennis (GOV)
Subject: RE: Fyi

That's unfortunate because he is one of the most reasonable voices in Flint on this issue.

From: Muchmore, Dennis (GOV)
Sent: Wednesday, April 08, 2015 11:52 AM
To: Hollins, Harvey (GOV)
Subject: FW: Fyi

Well, that didn't help at all. So much for Harris on the RTAB.

From: Workman, Wayne (TREASURY)
Sent: Wednesday, April 08, 2015 11:46 AM
To: Muchmore, Dennis (GOV); Clement, Elizabeth (GOV)
Cc: Saxton, Thomas (Treasury)
Subject: Fwd: Fyi..I had hoped we would be announcing our action plan this week ,ie going forth with the GAC. Will see what we can do to get a release out...

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> **From:** Gerald Ambrose <gambrose@cityofflint.com>
> **Date:** April 7, 2015 at 8:27:36 PM EDT
> **To:** "Wayne Workman (TREASURY)" <workmanw@michigan.gov>, Edward Koryzno <koryznoE@michigan.gov>, Randy Burn <ByrneR1@michigan.gov>
> **Subject: Fyi..I had hoped we would be announcing our action plan this week ,ie going forth with the GAC. Will see what we can do to get a release out...**
>
> **Flint pastors plan news conference on 'lack of progress' on Flint water issues**
>
> FLINT, MI -- Concerned Pastors for Social Action plan to speak out on a "lack of progress" on Flint water issues Wednesday, April 8. The Rev. Alfred Harris, president of the Concerned Pastors, said his group will detail its concerns at the 1:30 p.m. news conference at City Hal Read More
> http://www.mlive.com/news/flint/index.ssf/2015/04/flint_pastors_plan_news_confer.html

From: Elizabeth Murphy <emurphy@cityofflint.com>
Sent: Friday, January 09, 2015 4:22 PM
To: ABC12news; Adams, Dominic; Angie Hendershot; Assoc. Press; Audrey Martini; Bill Harris-WEYI; Carrie Sharp; Cathy Shafran-MLIVE; Courier News; Darnell Earley; Dave Waymire; David Harris-MLIVE; Dawn Jones; Dayne Walling; Muchmore, Dennis (GOV); East VillageNews; Koryzno, Edward (Treasury); Elaine Redd; Elizabeth Murphy; Emily Nelson; Eric Mays, Ward 1; Franklin, Matthew; Hollins, Harvey (GOV); Ian Rubin-WNEM; Inez Brown; Jake May; Janell Johnson; Jason Caya; Jason Cooper; Jason Lorenz; Jennifer Christenson; Jeremy Allen; Jessica Pressley; Joel Feick-WEYI; Joshua M. Freeman, Ward 4; Kate Wells; Kristin Longley-MLIVE; Kristin Moore; Lilly Brian; Lola Larkin; Marc 'Marcobson' Jacobson; Marjory Raymer; Maxine Murray; Michael Brown; Michael Rust; Michigan Radio; Mickle, Bryn; Monica Galloway, Ward 7; Mookie Wilson-WJRT; NBC25 Newsroom; Neille Giffune; Nicole Byilingiro; Nina Sika-WNEM; Patrick Wilson-WJRT; Byrne, Randall (Treasury); Randy Conat; Baird, Richard (GOV); Ridley, Gary; Roberto Acosta-MLIVE; Ron Fonger; Wurfel, Sara (GOV); Scott Kincaid, Ward 9; Stephanie Hackney; Steve Carmody-MPR; Stanton, Terry A. (Treasury); Thorne, Blake; Tom Lenard; Tony Cuttitta; Vicki VanBuren, Ward 8; Wantwaz Davis, Ward 5; Workman, Wayne (TREASURY); WFLT 1420am; WNEM
Subject: PRESS RELEASE - Flint Emergency Manager's Statement on Residents' Water Concerns
Attachments: Flint Water Statement 010915.pdf

For Immediate Release

Emergency Manager Statement on Residents' Flint River Water Concerns

Flint, Michigan – January 9, 2015 – The City of Flint's Emergency Manager Darnell Earley today released a statement regarding residents' Flint River water safety concerns following the distribution of the total trihalomethanes violation letter:

"Suggestions have been made that the City of Flint should return to using water purchased through the Detroit Water and Sewerage Department (DWSD). For many reasons, financial and otherwise, the City of Flint can ill-afford to switch courses at this point. Thus, we will continue to follow the guidelines and directives of the Michigan DEQ in the implementation of our water quality plan and operational report, until the KWA water source is available. The estimated cost to go back to the water provided by the DWSD is approximately $1 million per month and the City expects to be using the Karegnondi Water Authority (KWA) Lake Huron water within the next eighteen months. It is not financially prudent to spend $18 million to purchase water that meets the same DEQ standards as the water now available from the Flint River.

However, because of the concerns raised by the public, as well as the city council and our state legislative delegation, we want to make sure that the Flint water treatment operation is doing everything it can to address the challenges outlined in the recent violation notice issued by the State Department of Environmental Quality (DEQ). We will be seeking river water management consultants with extensive treatment expertise to work with the Flint Utilities Department staff to assure that best practices are being used for treatment and

distribution of the Flint River water. This is a much better use of the City's limited funds than trying to pursue a course back to DWSD."

–END–

--
Liz Murphy
Assistant to the Emergency Manager
City of Flint
810 237 2025

CITY OF FLINT
OFFICE OF EMERGENCY MANAGER
DARNELL EARLEY
ICMA-CM, MPA

Jason Lorenz
Public Information Officer
(810) 237-2039
jlorenz@cityofflint.com
Elizabeth Murphy
(810) 237-2025
emurphy@cityofflint.com

For Immediate Release

Emergency Manager Statement on Residents' Flint River Water Concerns

Flint, Michigan – January 9, 2015 – The City of Flint's Emergency Manager Darnell Earley today released a statement regarding residents' Flint River water safety concerns following the distribution of the total trihalomethanes violation letter:

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-CONTINUE-

CITY OF FLINT
OFFICE OF EMERGENCY MANAGER
DARNELL EARLEY
ICMA-CM, MPA

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–END–

City Hall
1101 S. Saginaw Street - Flint, Michigan 48502
810-766-7346 FAX: 810-766-7218 www.cityofflint.com

From: Dayne Walling <dwalling@cityofflint.com>
Sent: Sunday, January 18, 2015 4:16 PM
To: GovernorsOffice; Snyder, Rick (GOV)
Cc: Joshua Freeman; senjananich@senate.mi.gov; Hollins, Harvey (GOV); Muchmore, Dennis (GOV); Gerald Ambrose
Subject: Flint Water
Attachments: Mayor Governor Letter Flint Water Jan 18 2015.PDF

Follow Up Flag: Follow up
Flag Status: Completed

Dear Governor,

There is nothing more important in Flint right now than fixing the water problems. Attached is a letter outlining a plan with my request for your support. I urge you to work with all of us in the Flint community to implement solutions.

Sincerely,

Mayor Walling

--
Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
PPI
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

CITY OF FLINT

Dayne Walling
Mayor

January 18, 2015

The Honorable Rick Snyder
Governor, State of Michigan
P.O. Box 30013
Lansing, MI 48909

RE: Flint Water Improvement Plan

Dear Governor Snyder:

On behalf of the Flint community, I am writing to convey serious concerns about water quality and to request your support for my proposed Flint Water Improvement Plan. Access to safe and clean water is a basic human right, and, therefore, policy and budget decisions need to ensure that water is affordable and secure for everyone in Flint and all across Michigan It is essential there is City, State and Federal cooperation to address the challenges here and to meet the needs of vulnerable populations.

The Flint Water Improvement Plan is focused in five areas: safety, quality, access, investment and education. The plan puts safety and quality first because this is fundamental. It is designed to be a sustainable solution for the City of Flint and the community as we move towards a new permanent water supply from Lake Huron through the Karegnondi Water Authority. My plan offers new ideas and also builds on successful models of utility, energy and assistance programs at the State and Federal levels.

Safety & Quality

- 100% Safety is the standard
- City of Flint reports testing data to the public to assure safety and expands testing sites and frequency
- Bring on experienced river water treatment operational management in the City of Flint

Access

- Announce an amnesty program for Flint water service turn-ons and reduce the turn-on fee
- Develop a revised affordable payment plan policy to encourage customers to return
- Design Federal and State partnership to establish new Drinking Water Emergency Assistance Fund for the elderly and vulnerable families

Investment

- Accelerate water system improvements outlined in the City of Flint Capital Improvement Plan through Federal and State investments
    - State approves City of Flint's Distressed Cities Fund applications

- Federal and State support for replacement or forgiveness of payment to the Drinking Water Revolving Loan Fund due to Flint's status as a distressed community
- Federal and State grants for infrastructure improvements in alignment with the Flint Master Plan

* City Water Department implements budgeted FY15 projects including leak detection, valve repairs, new pipes and meter replacements

Education

* Develop a community partnership with universities to provide household and business customers with information on testing and conservation
* Ongoing partnership with Michigan Department of Human Services, United Way, Salvation Army and community organizations to provide information and water assistance with the Keep the Water Flowing Fund and support services
* Expand youth energy initiative to assist households with conservation and efficiency (piloted in summer 2014 with Northwestern High School students, EcoWorks and Consumers Energy)

It is also critical to restore the public confidence in Flint Water. The implementation of this plan must be accompanied by extensive community engagement including local elected officials. My objective is to work with you and your appointed officials, State Senator Ananich, State Representatives Phelps and Neeley, Congressman Kildee, community groups, businesses, churches, foundations, the Flint City Council, and all of the City of Flint and government personnel.

It is imperative that we communicate better and provide residents more information. I understand representatives from the Michigan Department of Environmental Quality will be joining a public forum this week at City Hall. This engagement going forward is vital so thank you for supporting their efforts. I think this issue of transparency is important for communities all across the State. I recommend a review of the applicable laws and policies and, at a minimum, a new requirement that water testing data be reported publicly no less than quarterly by law in all Michigan communities in Flint's population category.

Thank you for the consideration Governor. There is nothing more important in Flint right now than fixing the water problems. We must work together to identify funds to repair and update the water treatment facilities and city-wide infrastructure and to help those persons without access to clean water so that the entire Flint community has sustainable, safe, secure and affordable water now and into the future. This is an important issue for the state of our State of Michigan and I urge you to work with us to implement solutions.

Sincerely,

Dayne Walling, Mayor
City of Flint

CC: Flint City Council President Joshua Freeman; Congressman Dan Kildee; State Senator Jim Ananich; State Representative Sheldon Neeley; State Representative Phil Phelps; Flint Emergency Manager Jerry Ambrose

From: Workman, Wayne (TREASURY)
Sent: Wednesday, February 04, 2015 1:52 PM
To: Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Muchmore, Dennis (GOV); Clement, Elizabeth (GOV)
Subject: FW: Water Article

Assume you all saw this regarding Flint today

-----Original Message-----
From: Wildman, Michele (MSHDA)
Sent: Wednesday, February 04, 2015 1:41 PM
To: Workman, Wayne (TREASURY)
Subject: Water Article

The article I was referring to...

http://www.mlive.com/news/flint/index.ssf/2015/02/gisd_shuts_off_flint_water_for.html#incart_story_package

Sent from my iPad

From: Muchmore, Dennis (GOV)
Sent: Thursday, February 05, 2015 2:19 PM
To: Wurfel, Brad (DEQ)
Cc: Murray, David (GOV); Wurfel, Sara (GOV); Stanton, Terry A. (Treasury)
Subject: Re: pastor harris

I talked with him earlier today. We can say that we are exploring all the options available to us to respond to the concerns of the citizens of Flint. Pastor Harris is our point of contact and we can say that also.

On Feb 5, 2015, at 2:15 PM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:

> Thoughts on this? Who responds? How?
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> > **From:** "Fonger, Ronald" <RFONGER1@mlive.com>
> > **Date:** February 5, 2015 at 1:06:36 PM EST
> > **To:** "wurfelb@michigan.gov" <wurfelb@michigan.gov>
> > **Subject: pastor harris**
> >
> > Brad:
> > I just spoke with Pastor Harris, the president of the Concerned Pastors for Social Action. He said the group asked that Flint be immediately re-connected to Lake Huron water during yesterday's meeting and is expecting a response of some kind by the beginning of next week.
> > Would you or Dave Murray want to comment on whether that's under consideration?
> > I just wanted you guys to know what he's saying – without equivocation – in the story.
> > Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile [PPI]
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Muchmore, Dennis (GOV)
Sent: Thursday, February 05, 2015 3:11 PM
To: Stanton, Terry A. (Treasury); Wurfel, Brad (DEQ); Murray, David (GOV); Wurfel, Sara (GOV)
Subject: RE: pastor harris

Only problem with that is that the citizens of Flint say they are paying more now than they did when they were connected with DWSD. The city, after all, is not giving the water away free right now, so there is some kind of equalization that comes into play here. Additionally, we just gave them $2M so if we need to use it for a reconnect that's probably a good use of the money as opposed to people refusing to use city water. Since we're in charge, we can hardly ignore the people of Flint. After all, if GM refuses to use the water in their plant and our own agencies are warning people not to drink it, another expressing continuing concern over quality, and the differential between what we now collect and what we would pay DWSD is not significant, we look pretty stupid hiding behind some financial statement.

From: Stanton, Terry A. (Treasury)
Sent: Thursday, February 05, 2015 2:19 PM
To: Wurfel, Brad (DEQ); Muchmore, Dennis (GOV); Murray, David (GOV); Wurfel, Sara (GOV)
Subject: RE: pastor harris

Would add that the city (Earley, Ambrose, etc.) have been unequivocal that doing so would cost at least $1m per month…per the DWSD "offer"…and the city simply cannot afford that.

I have also heard that the city no longer owns a section of pipeline that would have to be used in making any re-connection…making that more difficult and expensive.

From: Wurfel, Brad (DEQ)
Sent: Thursday, February 05, 2015 2:15 PM
To: Muchmore, Dennis (GOV); Murray, David (GOV); Wurfel, Sara (GOV)
Cc: Stanton, Terry A. (Treasury)
Subject: Fwd: pastor harris

Thoughts on this? Who responds? How?

Sent from my iPhone

Begin forwarded message:

> **From:** "Fonger, Ronald" <RFONGER1@mlive.com>
> **Date:** February 5, 2015 at 1:06:36 PM EST
> **To:** "wurfelb@michigan.gov" <wurfelb@michigan.gov>
> **Subject: pastor harris**
>
> Brad:
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I just wanted you guys to know what he's saying – without equivocation – in the story.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Clayton, Stacie (GOV)
Sent: Friday, March 06, 2015 10:27 AM
To: Muchmore, Dennis (GOV); Clement, Elizabeth (GOV); Murray, David (GOV)
Cc: Hollins, Harvey (GOV)
Subject: FW: Tap Filters

You all were not included on the original email and Harvey wanted to make sure you had this information.

Stacie

Begin forwarded message:

> **From:** "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
> **Date:** March 5, 2015 at 4:26:25 PM EST
> **To:** "Hollins, Harvey (GOV)" <hollinsh@michigan.gov>, "Wyant, Dan (DEQ)" <WyantD@michigan.gov>, "Agen, Jarrod (GOV)" <AgenJ@michigan.gov>
> **Cc:** "Baird, Richard (GOV)" <bairdr@michigan.gov>, "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>
> **Subject: FW: Tap Filters**
>
> Harvey,
> Since group call Tuesday I have been working out how the filter idea might take shape.
>
> To reiterate some key points so we're all clear:
>
> 1. DEQ does not inspect individuals' homes in a situation like this. It's the city's system, their operators handle all complaints and maintenance. In fact, our folks alerted me that the city's got union rules in place forbidding any contractor from touching the system.
> 2. DEQ's role is limited to ensuring the plant is operating to state standards and the water it produces meets potability standards. The aesthetic issues drawing concern from residents – color, odor, taste – stem from a variety of things. Age of the system and prolonged lack of upkeep is the leading factor. But in some areas, another contributing factor is changes in water flow – source used to come from the south, now comes from the north, so some pipes are flowing in reverse, stirring up whatever was settled for a long time. In some sections, large pipes that historically served large communities are now serving a much smaller customer base, contributing to water stagnating in the system. In some areas, household connections are old and worn, so two neighbors may be having dramatically different experiences. My point is, the challenge takes many forms and there's no single solution that will bring sweeping change. The two consultants hired by the city have, as I understand it, both reinforced this idea in their assessments, so that's good.
>
> 3. The fix for this will be years in the making, truly. Even if full funding were available, 'big dig' projects can't all happen at once. The city needs to get an assessment of its infrastructure so it can prioritize its needs, and I understand they're working on that. In the near term, maintenance this spring / summer –

things like cleaning the pipes in key sections and flushing the system via the hydrants -- could offer some short term results. I know nobody wants to just wait for spring, but that is something important to keep in mind.

4. In the meantime, the group discussed possibly making home water filters available somehow. The National Safety Foundation is a Michigan company, headquartered and founded in Ann Arbor, that develops standards for all kinds of infrastructure. They're a globally recognized source for standard setting. A look at their site reveals there are myriad filtration options on the market and within each type (faucet mounted, whole house line filters, etc) there are filters that focus on different aspects of purification.

   If this idea begins to get legs, I'd suggest testing some different models on the local water at the customer level to see if they work. I'd also suggest the idea be focused on tap-mounted models to promote clean, appealing drinking water. And I'd suggest this program could be funded in whole or in part by the state, but would need to be administered by the city (reinforcing the fact that they own, operate and service the system). I've got some information on filter models below.

   Two more considerations: One, while the state has provided residents in some communities with bottled water in the past, it always has to do with their water being somehow contaminated -- as in, some kind of chemical plume that impaired local drinking water sources. This would be the first time the state took steps to deal with what is an aesthetic issue on a system where the water is meeting state drinking water standards.

Water filter info:
ANSI NSF Standard 42 Covers bacteriostasis, taste and odor (associated only with chlorine removal), and other aesthetic conditions
http://standards.nsf.org/apps/group_public/download.php/19895/NSF_42-11%20-%20watermarked.pdf

ANSI NSF Standard 53 Covers health effects removal
http://standards.nsf.org/apps/group_public/download.php/19896/NSF_53-11a%20-%20watermarked.pdf

It is important to note that the filters are not required to meet all aspects of the standard, only the portions they want to make claims for. So product information for each filter must be reviewed to determine its applicability.

Most of these point of use filters are basic activated carbon filters that simply remove taste and odor specifically associated with chlorine, not other things like iron, manganese, hydrogen sulfide, etc. that can also impact taste and odor as well as color.

It is important to recognize that taste and odor is generally an individual preference and such standards have for the most part not been developed because groups of individuals may still consider taste and odor issues to exist even after levels for such a standard have been met.

Other considerations are that the test water for such filters attempting to meet the standard uses hardness levels of 170 mg/L or less. Flint's water at times may be above this level, which could then impact filter performance and longevity.

Most of these filters are designed to be replaced after 100 gallons or less of use, a period of about 3 months for most households. In addition the tests allow for initial pressure drops of up to 15 psi. This may limit use in households that already rely on minimum pressure within their household plumbing.

Regarding the health effects standards, as the Flint water system already meets such requirements, with the exception of the current TTHM locational running annual average, there is little point to the use of these filters for such a purpose.

To the point you'd asked about the other day, while Flint and Detroit are leading examples of unmaintained infrastructure, Flint is not alone by any means.

This recent infrastructure report card
http://www.infrastructurereportcard.org/michigan/michigan-overview/
Lists Michigan with a $13.8 Billion need over the next 20 years.

http://www.infrastructurereportcard.org/a/#p/state-facts/michigan

Here's a link to the 2009 Report Card for Michigan Infrastructure
http://www.michiganreportcard.com/

From the report:

"A significant portion of the state's primary distribution system is nearing 100 years old. CWS are facing a significant challenge to maintain the vast network of aging, underground infrastructure. Within the city of Detroit alone, approximately 80% of its distribution piping was installed prior to 1940, which is not unusual for CWS in Michigan."

"The age of the majority of the state's distribution system is the primary contributor to normal decay and failure. In many cases, pipe life has far exceeded useful service life. Much of the older water systems consist of undersized mains constructed of materials such as unlined cast iron pipe. Minor fluctuations in system flows or pressure may cause red water complaints and even result in pipe failure. All CWS should have routine flushing and valve maintenance programs; however many are hesitant due to the time and cost."

"Under the Stage 2 Disinfection Byproducts Rule, all CWS that disinfect are required to provide increased trihalomethane (THHM) and haloacetic acid (HAA5) monitoring due to the potential byproducts of chlorine reactions within the pipe system. Corrosion, scale, solid suspension on the interior sidewall of pipe, in addition to the age and condition of the system will require diligent rehabilitation investment to maintain system integrity."

"While better materials and advanced technology is available to replace the aging distribution system, resources remain scarce when compared with the magnitude of the rehabilitation task at hand. Too often, distribution system replacement costs are underfunded and the first item to be slashed when budget problems arise. Overall, distribution system maintenance is reactionary in much of the older systems. Since the majority of the antiquated system will require removal and replacement beyond the

CWS funding resources for systematic upgrade, a reactionary rehabilitation program is inevitable and must be funded accordingly."

Call or email me if you need anything further.
b

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713

PPI

From: Workman, Wayne (TREASURY)
Sent: Wednesday, April 08, 2015 6:40 PM
To: Muchmore, Dennis (GOV)
Cc: Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Gelisse, Ashley (TREASURY); Clement, Elizabeth (GOV); Hollins, Harvey (GOV)
Subject: Re: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water

It is timely to figure that out, because what they is not affordable and they are ignoring the new improvements announced today.

Sent from my iPad

On Apr 8, 2015, at 5:27 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

> Why not, we haven't anything else to do except spend our time chasing our tail. This issue isn't going to go away until we do some serious comms work in the city.
>
> ---
>
> **From:** Workman, Wayne (TREASURY)
> **Sent:** Wednesday, April 08, 2015 5:13 PM
> **To:** Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Gelisse, Ashley (TREASURY); Muchmore, Dennis (GOV); Clement, Elizabeth (GOV)
> **Subject:** Fwd: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water
>
> FYI
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> > **From:** "Koryzno, Edward (Treasury)" <KoryznoE@michigan.gov>
> > **Date:** April 8, 2015 at 4:35:47 PM EDT
> > **To:** "Workman, Wayne (TREASURY)" <WorkmanW@michigan.gov>, "Gelisse, Ashley (TREASURY)" <GelisseA@michigan.gov>
> > **Subject: FW: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water**
> >
> > FYI
> >
> >
> > Edward B. Koryzno, Jr. | Director - Bureau of Local Government Services
> > State of Michigan | 430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
> > (517) 373-4415 | (517) 373-0633 (fax)
> > KoryznoE@michigan.gov
> >
> > Think Green! Don't print this e-mail unless you need to.
> >
> > *CONFIDENTIALITY NOTICE: This e-mail, and any attachments, is for the sole use of the intended recipient(s) and may contain information that is confidential and protected from disclosure under the law. Any unauthorized review, use, disclosure,*

or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail, and delete/destroy all copies of the original message and attachments.
Thank you

From: Widigan, Robert (TREASURY)
Sent: Wednesday, April 08, 2015 4:12 PM
To: Koryzno, Edward (Treasury); Byrne, Randall (Treasury); Cline, Richard (Treasury); Vandegrift, Drew (TREASURY)
Subject: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water
Importance: Low

FYI – http://videos.mlive.com/mlive/2015/04/flint_pastors_warn_theyll_go_t.html

Robert Widigan | Office of Fiscal Responsibility
State of Michigan | Department of Treasury
430 W. Allegan Street | Lansing, MI 48922
Office (517) 335-2130 | Cell PPI
WidiganR@michigan.gov

From: Hollins, Harvey (GOV)
Sent: Thursday, April 09, 2015 4:52 PM
To: Muchmore, Dennis (GOV)
Subject: RE: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water

Follow Up Flag: Follow up
Flag Status: Flagged

Chief—if we rely on the current communications folks in Flint either within Treasury or in the EM's office, we're going to get the same outcome. I recommend retaining a PR firm.

From: Muchmore, Dennis (GOV)
Sent: Thursday, April 09, 2015 4:47 PM
To: Workman, Wayne (TREASURY)
Cc: Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Gelisse, Ashley (TREASURY); Clement, Elizabeth (GOV); Hollins, Harvey (GOV)
Subject: RE: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water

We need to up our comms efforts in Flint area.
How would we ever afford this now?

From: Workman, Wayne (TREASURY)
Sent: Wednesday, April 08, 2015 6:40 PM
To: Muchmore, Dennis (GOV)
Cc: Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Gelisse, Ashley (TREASURY); Clement, Elizabeth (GOV); Hollins, Harvey (GOV)
Subject: Re: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water

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Date: April 8, 2015 at 4:35:47 PM EDT
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Subject: FW: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water

FYI

Edward B. Koryzno, Jr. | Director - Bureau of Local Government Services
State of Michigan | 430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
(517) 373-4415 | (517) 373-0633 (fax)
KoryznoE@michigan.gov

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Thank you

From: Widigan, Robert (TREASURY)
Sent: Wednesday, April 08, 2015 4:12 PM
To: Koryzno, Edward (Treasury); Byrne, Randall (Treasury); Cline, Richard (Treasury); Vandegrift, Drew (TREASURY)
Subject: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water
Importance: Low

FYI – http://videos.mlive.com/mlive/2015/04/flint_pastors_warn_theyll_go_t.html

Robert Widigan | Office of Fiscal Responsibility
State of Michigan | Department of Treasury
430 W. Allegan Street | Lansing, MI 48922
Office (517) 335-2130 | Cell **PPI**
WidiganR@michigan.gov

From: Hollins, Harvey (GOV)
Sent: Thursday, April 09, 2015 6:35 PM
To: Muchmore, Dennis (GOV)
Subject: Re: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water

Follow Up Flag: Follow up
Flag Status: Flagged

The city has the $2m they could use. $75k would get them a good firm for several months to help weather this.

Best,
Harvey

On Apr 9, 2015, at 5:33 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> I'll work on it. I have no money to do that but I have an idea how to break the chain.
>
> ---
>
> **From:** Hollins, Harvey (GOV)
> **Sent:** Thursday, April 09, 2015 4:52 PM
> **To:** Muchmore, Dennis (GOV)
> **Subject:** RE: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water
>
> Chief—if we rely on the current communications folks in Flint either within Treasury or in the EM's office, we're going to get the same outcome. I recommend retaining a PR firm.
>
> ---
>
> **From:** Muchmore, Dennis (GOV)
> **Sent:** Thursday, April 09, 2015 4:47 PM
> **To:** Workman, Wayne (TREASURY)
> **Cc:** Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Gelisse, Ashley (TREASURY); Clement, Elizabeth (GOV); Hollins, Harvey (GOV)
> **Subject:** RE: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water
>
> We need to up our comms efforts in Flint area.
> How would we ever afford this now?
>
> ---
>
> **From:** Workman, Wayne (TREASURY)
> **Sent:** Wednesday, April 08, 2015 6:40 PM
> **To:** Muchmore, Dennis (GOV)
> **Cc:** Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Gelisse, Ashley (TREASURY); Clement, Elizabeth (GOV); Hollins, Harvey (GOV)
> **Subject:** Re: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water
>
> It is timely to figure that out, because what they is not affordable and they are ignoring the new improvements announced today.
>
> Sent from my iPad
>
> On Apr 8, 2015, at 5:27 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

Why not, we haven't anything else to do except spend our time chasing our tail. This issue isn't going to go away until we do some serious comms work in the city.

From: Workman, Wayne (TREASURY)
Sent: Wednesday, April 08, 2015 5:13 PM
To: Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Gelisse, Ashley (TREASURY); Muchmore, Dennis (GOV); Clement, Elizabeth (GOV)
Subject: Fwd: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water

FYI

Sent from my iPhone

Begin forwarded message:

> **From:** "Koryzno, Edward (Treasury)" <KoryznoE@michigan.gov>
> **Date:** April 8, 2015 at 4:35:47 PM EDT
> **To:** "Workman, Wayne (TREASURY)" <WorkmanW@michigan.gov>, "Gelisse, Ashley (TREASURY)" <GelisseA@michigan.gov>
> **Subject: FW: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water**
>
> FYI
>
> <image001.jpg>
> Edward B. Koryzno, Jr. | Director - Bureau of Local Government Services
> State of Michigan | 430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
> (517) 373-4415 | (517) 373-0633 (fax)
> KoryznoE@michigan.gov
>
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> *Thank you*

From: Widigan, Robert (TREASURY)
Sent: Wednesday, April 08, 2015 4:12 PM
To: Koryzno, Edward (Treasury); Byrne, Randall (Treasury); Cline, Richard (Treasury); Vandegrift, Drew (TREASURY)
Subject: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water
Importance: Low

FYI –
http://videos.mlive.com/mlive/2015/04/flint_pastors_warn_theyll_go_t.html

Robert Widigan | Office of Fiscal Responsibility
State of Michigan | Department of Treasury
430 W. Allegan Street | Lansing, MI 48922
Office (517) 335-2130 | Cell PPI
WidiganR@michigan.gov

From: Workman, Wayne (TREASURY)
Sent: Tuesday, April 21, 2015 10:16 AM
To: Barton, John (Treasury); Muchmore, Dennis (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Barton, John (Treasury); Byrne, Randall (Treasury); Cline, Richard (Treasury)
Subject: FW: U.S. EPA says Flint's water loans 'not eligible for forgiveness'

-----Original Message-----
From: Stanton, Terry A. (Treasury)
Sent: Tuesday, April 21, 2015 10:08 AM
To: Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); Koryzno, Edward (Treasury)
Cc: Sampson, Jeremy (TREASURY)
Subject: U.S. EPA says Flint's water loans 'not eligible for forgiveness'

http://www.mlive.com/news/flint/index.ssf/2015/04/us_epa_says_flints_water_loans.html#incart_email_mobile

TS

From: Hollins, Harvey (GOV)
Sent: Friday, November 13, 2015 4:22 PM
To: Muchmore, Dennis (GOV)
Subject: Water pipeline vs. Flint River: City of Flint studying its drinking water options | MLive.com

There's more, but our friend Neeley forgets.
http://www.mlive.com/news/flint/index.ssf/2011/01/water_pipeline_vs_flint_river.html

Best,
Harvey

From: Saxton, Thomas (Treasury)
Sent: Friday, January 30, 2015 4:35 PM
To: Muchmore, Dennis (GOV); Clement, Elizabeth (GOV)
Cc: Stanton, Terry A. (Treasury)
Subject: Flint water

We (Treasury) think we can restructure the drinking water loans the City currently has. Essentially this means deferring the upcoming April & Oct principle payts. [We can't forgive their loans nor extend the maturities].

I am rounding the numbers… originally they had 4 loans totally $40+mm. The current amt outstanding is about $20mm. The cash benefit of deferring the principle payts is approx. $2.1mm.

I had talked to Jerry A. re where they would use the money. One possibility would be the consultant they are looking hire. The other is to pay for that pipeline replacement he talked about.

I talked to Jim Sygo @ DEQ to see if they had any issues because they are responsible for the program side. He checked with his staff. They had some concerns about opening up 'Pandora's Box' i.e., other distress communities would want to do this. But at the end of the day I think they
would ok the deferral particularly if you (the Gov's office) supported it. Jim had left me a v-mail so I can get back to him Monday to really confirm.

From: Saxton, Thomas (Treasury)
Sent: Tuesday, February 03, 2015 11:47 AM
To: Muchmore, Dennis (GOV)
Cc: Clement, Elizabeth (GOV); Stanton, Terry A. (Treasury)
Subject: RE: Flint water

No, we are not extending the maturity. We are simply making them pay more in a later timeframe.

From: Muchmore, Dennis (GOV)
Sent: Tuesday, February 03, 2015 9:25 AM
To: Saxton, Thomas (Treasury)
Cc: Clement, Elizabeth (GOV); Stanton, Terry A. (Treasury)
Subject: Re: Flint water

Sounds like the best solution. In essence you are extending the maturity because it extends the debt repayment schedule.

On Jan 30, 2015, at 4:43 PM, Saxton, Thomas (Treasury) <SaxtonT@michigan.gov> wrote:

> We (Treasury) think we can restructure the drinking water loans the City currently has. Essentially this means deferring the upcoming April & Oct principle payts. [We can't forgive their loans nor extend the maturities].
>
> I am rounding the numbers… originally they had 4 loans totally $40+mm. The current amt outstanding is about $20mm. The cash benefit of deferring the principle payts is approx. $2.1mm.
>
> I had talked to Jerry A. re where they would use the money. One possibility would be the consultant they are looking hire. The other is to pay for that pipeline replacement he talked about.
>
> I talked to Jim Sygo @ DEQ to see if they had any issues because they are responsible for the program side. He checked with his staff. They had some concerns about opening up 'Pandora's Box' i.e., other distress communities would want to do this. But at the end of the day I think they would ok the deferral particularly if you (the Gov's office) supported it. Jim had left me a v-mail so I can get back to him Monday to really confirm.

From: Wurfel, Brad (DEQ)
Sent: Thursday, February 05, 2015 2:15 PM
To: Muchmore, Dennis (GOV); Murray, David (GOV); Wurfel, Sara (GOV)
Cc: Stanton, Terry A. (Treasury)
Subject: Fwd: pastor harris

Thoughts on this? Who responds? How?

Sent from my iPhone

Begin forwarded message:

> **From:** "Fonger, Ronald" <RFONGER1@mlive.com>
> **Date:** February 5, 2015 at 1:06:36 PM EST
> **To:** "wurfelb@michigan.gov" <wurfelb@michigan.gov>
> **Subject: pastor harris**
>
> Brad:
> I just spoke with Pastor Harris, the president of the Concerned Pastors for Social Action.
> He said the group asked that Flint be immediately re-connected to Lake Huron water during yesterday's meeting and is expecting a response of some kind by the beginning of next week.
> Would you or Dave Murray want to comment on whether that's under consideration?
> I just wanted you guys to know what he's saying – without equivocation – in the story.
> Thanks,
>
> **Ron Fonger**
> MLive Media Group
> Reporter
>
> mobile PPI
> email rfonger1@mlive.com
> address 540 S. Saginaw St. #101, Flint MI 48502

From: Stanton, Terry A. (Treasury)
Sent: Thursday, February 05, 2015 2:19 PM
To: Wurfel, Brad (DEQ); Muchmore, Dennis (GOV); Murray, David (GOV); Wurfel, Sara (GOV)
Subject: RE: pastor harris

Follow Up Flag: Follow up
Flag Status: Flagged

Would add that the city (Earley, Ambrose, etc.) have been unequivocal that doing so would cost at least $1m per month...per the DWSD "offer"...and the city simply cannot afford that.

I have also heard that the city no longer owns a section of pipeline that would have to be used in making any re-connection...making that more difficult and expensive.

From: Wurfel, Brad (DEQ)
Sent: Thursday, February 05, 2015 2:15 PM
To: Muchmore, Dennis (GOV); Murray, David (GOV); Wurfel, Sara (GOV)
Cc: Stanton, Terry A. (Treasury)
Subject: Fwd: pastor harris

Thoughts on this? Who responds? How?

Sent from my iPhone

Begin forwarded message:

> **From:** "Fonger, Ronald" <RFONGER1@mlive.com>
> **Date:** February 5, 2015 at 1:06:36 PM EST
> **To:** "wurfelb@michigan.gov" <wurfelb@michigan.gov>
> **Subject: pastor harris**
>
> Brad:
> I just spoke with Pastor Harris, the president of the Concerned Pastors for Social Action.
> He said the group asked that Flint be immediately re-connected to Lake Huron water during yesterday's meeting and is expecting a response of some kind by the beginning of next week.
> Would you or Dave Murray want to comment on whether that's under consideration?
> I just wanted you guys to know what he's saying – without equivocation – in the story.
> Thanks,
>
> **Ron Fonger**
> MLive Media Group
> Reporter
>
> mobile PPI
> email rfonger1@mlive.com

address 540 S. Saginaw St. #101, Flint MI 48502

From: Workman, Wayne (TREASURY)
Sent: Wednesday, February 11, 2015 3:02 PM
To: Saxton, Thomas (Treasury); Hollins, Harvey (GOV); Baird, Richard (GOV); Muchmore, Dennis (GOV)
Subject: Fwd: Flint water
Attachments: Flint Rate Study Report Final Draft v6.docx; ATT00001.htm

See below from Jerry

Sent from my iPhone

Begin forwarded message:

> **From:** "Gerald Ambrose" <gambrose@cityofflint.com>
> **To:** "Workman, Wayne (TREASURY)" <WorkmanW@michigan.gov>
> **Cc:** "Widigan, Robert (TREASURY)" <WidiganR@michigan.gov>, "amooney@cityofflint.com" <amooney@cityofflint.com>, "Saxton, Thomas (Treasury)" <SaxtonT@michigan.gov>
> **Subject: Re: FW: Flint water**
>
> We followed the recommendations of the RFC rate study. Their recommendations encompassed the knowledge of leaving DWSD, as well as the impending increase in costs associated with KWA once connected (City share of debt service), and the need for significant reinvestment in the utility system infrastructure, and a desire to level out future rate increases.
>
> Copy of the RFC study attached.
>
> Jerry
>
> On Wed, Feb 11, 2015 at 12:31 PM, Workman, Wayne (TREASURY) <WorkmanW@michigan.gov<mailto:WorkmanW@michigan.gov>> wrote:
> Please see Harvey`s question as to rationale for 2014 rate increase
>
> From: Hollins, Harvey (GOV)
> Sent: Wednesday, February 11, 2015 12:27 PM
> To: Saxton, Thomas (Treasury)
> Cc: Muchmore, Dennis (GOV); Wisniewski, Wendy (GOV); Workman, Wayne (TREASURY)
> Subject: Re: Flint water
>
> Why did the rates go up after the connection to the Flint river?
>
> Best,
> Harvey
>
> On Feb 11, 2015, at 12:21 PM, Saxton, Thomas (Treasury) <SaxtonT@michigan.gov<mailto:SaxtonT@michigan.gov>> wrote:
> Dennis – the attached pdf is the memo & table that hopefully addresses some of the info needs stemming from the meeting with the pastors last week. Jerry A. has looked at this document as well. In terms of key items at this point (that are mentioned in the memo)….

KWA may be hooked up by the end of this calendar year; weather permitting, etc. Even allowing for some slippage that is positive news

Whether you hooked to DWSD thru the county or directly; it is a $1mm add'l impact to the budget… an add'l 30% increase in rates over existing

They have $2mm already baked in the budget to fix that two mile 'bad' section of pipeline that might address a good portion of the current issues

They now have an outside consultant on the ground who is suppose to provide some preliminary indications next week to help improve the situation

Don't forget about the $2mm SRF loan restructuring (which we have not officially put on the table). Those $s would be available for more system improvements.

Again, sorry this took as long as it did. Let us know if this is what you had in mind or if you need anything else. Wayne – chime in if I missed anything.

See you @ 1:30

<FlintWater.pdf>

RAFTELIS
FINANCIAL CONSULTANTS, INC.

CITY OF FLINT

Water and Wastewater Rate Study

Final Report |June 19, 2014

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1. EXECUTIVE SUMMARY

1.1 BACKGROUND OF THE STUDY

On November of 2013, the City of Flint ("City") engaged Raftelis Financial Consultants ("RFC") to perform water and wastewater utility rate studies. The scope of services included the following:

- Evaluate the adequacy of existing water and wastewater revenues to meet each utility's projected revenue requirements
- Develop comprehensive water and wastewater financial plans based on sound financial management practices for a 10 year forecast period
- Determine water and wastewater rates which adequately recover the cost of operating the water and wastewater utilities under the existing rate structures and provide alternatives based on a comprehensive cost of service study
- Analyze the impact of transitioning from the use of purchased potable water from the Detroit Water and Sewerage District ("DWSD") to the treatment of raw water from the Karegnondi Water Authority ("KWA").
- Review the City's water and wastewater operations in comparison to Best Management Practices criteria.

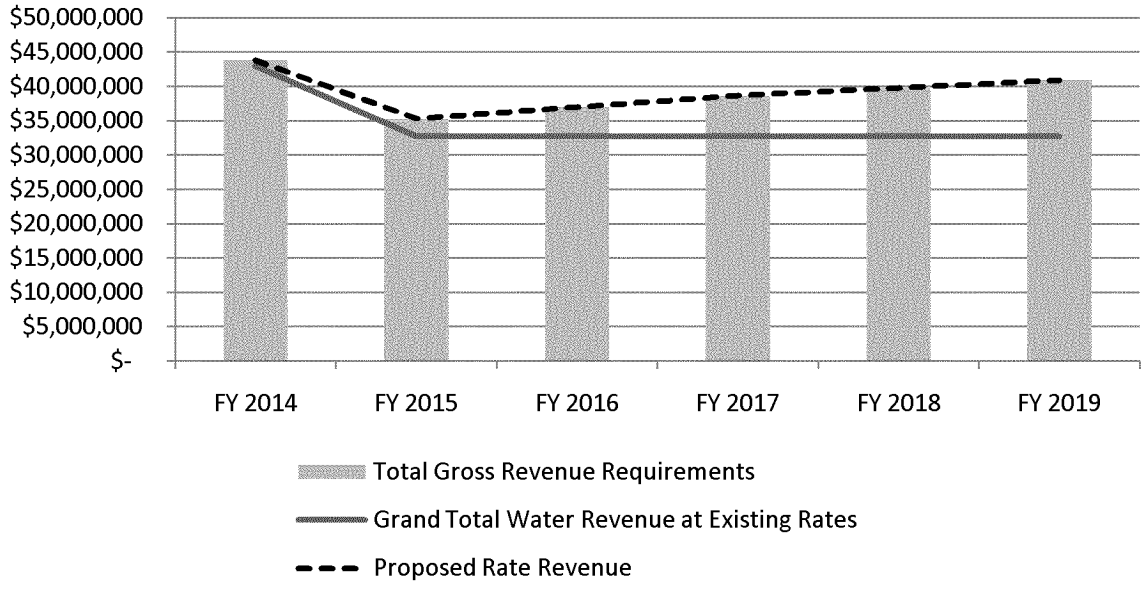
1.2 ADEQUACY OF EXISTING WATER AND WASTEWATER REVENUES

Charts ES-1 and 2 below summarize our conclusions with respect to the adequacy of water and wastewater revenue at existing rates. As the charts indicate, beginning in FY 2015, water and wastewater utility revenues are insufficient to recover each utility's revenue requirement. Key drivers of this disparity are:

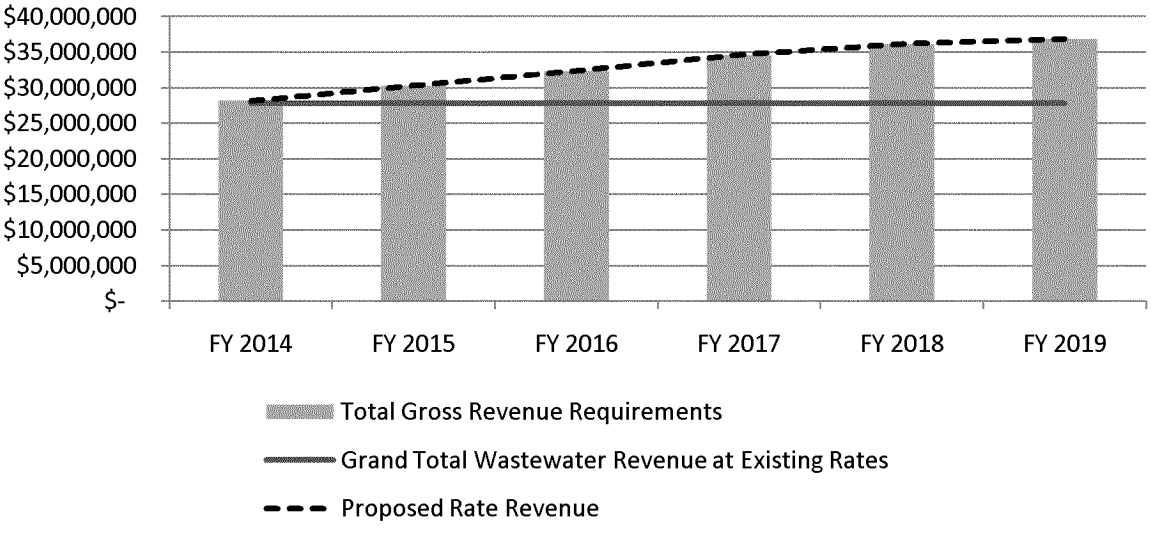
- A marked decrease in billed usage, the cause of which is currently being evaluated by RFC under a separate contract.
- A normal pattern of declining per customer usage for both utilities overall due to conservation, efficient appliances, etc.
- Increases in utility revenue requirements associated with the financial plans including operating cost inflation, capital improvements and policies which support the sound financial management of each utility in accordance with best management practices.

Consequently, the proposed increases in rate revenue are necessary to ensure each utility can adequately fund its operation and maintenance expenditures, make payments on existing debt service, provide funding for needed capital improvements and ensure adequate operating reserves.

ES-1: Water Utility Revenues at Existing Rates



ES-2: Wastewater Utility Revenues at Existing Rates



1.3 WATER AND WASTEWATER FINANCIAL PLANS

Tables ES-3 and ES-4 below summarize the proposed water and wastewater financial plans and rate revenue increases for the first 5 years of the forecast period.

The financial plans and proposed increased in rate revenues are driven by the following factors:

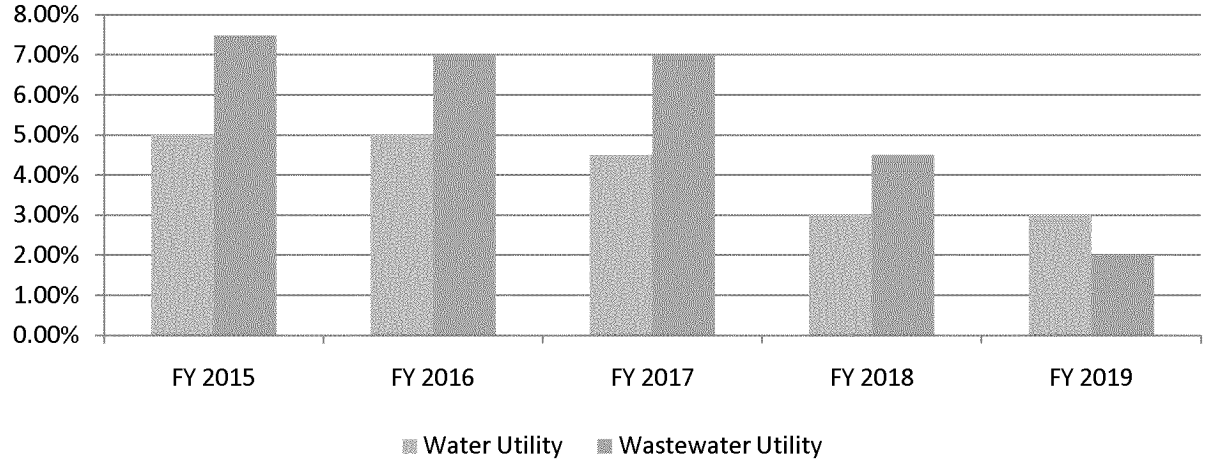
- Inflationary increases in O&M expenditures for both utilities
- For the water utility:
    - Decreases in revenues associated with the cessation of service to Genesee County
    - Decreases in O&M expenditures associated with an elimination of DWSD water purchases
    - Increases in O&M expenditures associated with transitioning from back-up to primary operation of the Flint WTP
    - Increases in capital expenditures associated with improvements to the Flint WTP in preparation for the treatment of raw water from KWA
    - Increases in debt service associated with Flint's share of projected KWA debt service
- Necessary cash funded recapitalization of wastewater utility assets
- A build-up, for each utility, of operating reserves equivalent to 90 days of projected O&M expenditures and debt service payments, the minimum, according to financial management practices ("BMP").

ES-3: SUMMARY OF WATER AND WASTEWATER FINANCIAL PLANS

Water Utility	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019
REVENUES						
Grand Total Water Revenue at Existing Rates	$ 42,974,374	$ 32,732,575	$ 32,762,575	$ 32,762,575	$ 32,762,575	$ 32,762,575
Additional Revenue from Rate Increases	$ -	$ 1,638,100	$ 3,358,100	$ 4,983,500	$ 6,115,900	$ 7,282,300
Total Non-Rate Revenues	$ 886,000	$ 913,314	$ 931,644	$ 927,686	$ 928,503	$ 929,131
Add Transfers in from General Fund	$ -	$ -	$ -	$ -	$ -	
Total Rate and Non-Rate Revenues	***$ 43,860,374***	***$ 35,313,989***	***$ 37,052,318***	***$ 38,673,761***	***$ 39,806,978***	***$ 40,974,006***
GROSS REVENUE REQUIREMENTS						
O&M	$ 36,865,206	$ 21,433,441	$ 22,140,012	$ 23,316,857	$ 23,999,504	$ 24,705,148
Capital	$ 9,747,946	$ 11,742,821	$ 11,246,423	$ 13,148,446	$ 15,644,008	$ 16,143,196
Transfer to Operating Reserve	$ (2,752,778)	$ 2,037,727	$ 3,665,883	$ (791,543)	$ 163,465	$ 125,662
Total Gross Revenue Requirements	***$ 43,860,374***	***$ 35,313,989***	***$ 37,052,318***	***$ 38,673,761***	***$ 39,806,978***	***$ 40,974,006***
DEFICIT (EXISTING REVENUES - REVENUE REQ.)	$ -	$ (1,638,100)	$ (3,358,100)	$ (4,983,500)	$ (6,115,900)	$ (7,282,300)

Wastewater Utility	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019
REVENUES						
Grand Total Wastewater Revenue at Existing Rates	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374
Additional Revenue from Rate Increases	$ -	$ 2,000,000	$ 4,173,500	$ 5,410,100	$ 7,940,500	$ 9,662,000
Total Non-Rate Revenues	$ 395,872	$ 423,562	$ 420,948	$ 426,058	$ 422,741	$ 439,354
Add Transfers in from General Fund	$ -	$ -	$ -	$ -	$ -	
Total Rate and Non-Rate Revenues	***$ 28,173,246***	***$ 30,284,237***	***$ 32,371,823***	***$ 34,613,532***	***$ 36,148,615***	***$ 36,879,728***
GROSS REVENUE REQUIREMENTS						
O&M	$ 24,020,627	$ 20,050,092	$ 20,394,671	$ 24,091,569	$ 24,812,701	$ 25,557,110
Capital	$ 5,500,000	$ 7,000,000	$ 9,500,000	$ 3,500,000	$ 12,000,000	$ 8,000,000
Transfer to Operating Reserve	$ (1,650,381)	$ 230,845	$ (522,848)	$ 1,021,963	$ (663,486)	$ 3,322,618
Total Gross Revenue Requirements	***$ 28,173,246***	***$ 30,284,237***	***$ 32,371,823***	***$ 34,613,532***	***$ 36,148,615***	***$ 36,879,728***
DEFICIT (EXISTING REVENUES - REVENUE REQ.)	$ -	$ (2,083,300)	$ (4,173,500)	$ (6,410,100)	$ (7,948,500)	$ (8,663,000)

ES-4: Annual % Rate Revenue Increases



As indicated in the previous section, water and wastewater utility revenues at existing rates are not adequate to recover the projected costs each utility will incur over the forecast period. Consequently additional rate revenue will be needed to ensure adequate recovery of each utility's revenue requirements.

1.4 COST OF SERVICE STUDY AND WATER AND WASTEWATER RATES

Table ES-5 below summarizes the results of the water and wastewater cost of service studies. The customer classes included are those which are recognized in the City's existing customer information system ("CIS"). While the City does not currently have either a water or wastewater rate structure which recognizes these customer classes, rates by customer class have been calculated and are included as appendices A and B to this report. The totals for each customer class represent the contribution of that class to the overall costs of each utility. This is based on the allocation processes described in sections 4 and 5 of this report.

Given the transition from KWA to DWSD the City will not be making any rate structure changes at this time. It is our opinion that the current water and wastewater rate structures are reasonable. The declining block water rates generally recognizing the fact that higher volume customers (i.e. large commercial and industrial) contribute less to peak demand, and overall water utility costs. Additionally, the relatively high proportion of fixed charge revenue recovery provides a less climatically variable revenue stream, which given that the majority of the utility's costs are fixed, is entirely appropriate.

ES-5: SUMMARY OF COST OF SERVICE STUDY RESULTS

CUSTOMER CLASS	WATER	WASTEWATER
Allocated Cost of Service		
Total Inside City Residential COS	$ 18,345,672	$ 16,412,799
Total Inside City Commercial/Industrial COS	$ 15,263,704	$ 13,378,697
Total Inside City Lawn COS	$ 370,646	N/A
Total Inside City COS	$ 33,980,022	$ 29,791,496
Total Outside City Residential COS	$ 99,483	$ 2,382
Total Outside City Commercial/Industrial COS	$ 321,169	$ 66,796
Total Outside City Lawn COS	$ -	N/A
Total Outside City COS	$ 420,653	$ 69,178
Total System Cost of Service	$ 34,400,675	$ 29,860,674

Tables ES-6 and ES-7 summarize the projected fixed and volumetric rates for the first 5 years of the forecast period, given financial plans and rate revenue increases proposed above. For every dollar of rate revenue generated by each utility approximately $.66 is derived from volumetric charges and $.34 is derived from fixed charges.

It is typical for water and wastewater utilities to design fixed charges which recover, at a minimum, the costs of meter reading, billing and collection and customer service. Additionally, fixed charges may also relate to fixed investment in utility assets associated with providing service which is available at all times regardless of usage levels by City customers. These costs, known as readiness to serve costs, have also been incorporated into the water and wastewater fixed charges.

Volumetric rates recover the variable costs associated with operating the water and wastewater utilities. For the water utility variable costs are associated with water treatment, transmission and distribution, pumping, and storage and are driven primarily by the design requirements associated with peak water usage. For the wastewater utility variable costs are associated with wastewater treatment, collection, and pumping, and are driven by the wastewater volume and strength.

ES-6: SUMMARY OF WATER AND WASTEWATER VOLUMETRIC RATES

Water Volumetric Rates

CUSTOMER CLASS	CONSUMPTION BLOCK	UNITS	FY 2014 Existing Block Rates	Test-Year FY 2015 Proposed Block Rates	Forecast FY 2016 Proposed Block Rates	Forecast FY 2017 Proposed Block Rates	Forecast FY 2018 Proposed Block Rates	Forecast FY 2019 Proposed Block Rates
Annual % Increase in Rate Revenues			**0.00%**	**5.00%**	**5.00%**	**4.50%**	**3.00%**	**3.00%**
Total Inside City All Classes								
Inside City Block 1	0-35 CCF	($/CCF)	$ 7.52	$ 7.92	$ 8.32	$ 8.69	$ 8.95	$ 9.22
Inside City Block 2	36-2000 CCF	($/CCF)	$ 7.31	$ 7.62	$ 8.00	$ 8.36	$ 8.61	$ 8.87
Inside City Block 3	above 2000 CCF	($/CCF)	$ 5.79	$ 6.09	$ 6.40	$ 6.69	$ 6.89	$ 7.09
Total Outside City All Classes								
Outside City Block 1	0-35 CCF	($/CCF)	$ 11.26	$ 11.88	$ 12.48	$ 13.04	$ 13.43	$ 13.83
Outside City Block 2	36-2000 CCF	($/CCF)	$ 10.77	$ 11.42	$ 12.00	$ 12.54	$ 12.91	$ 13.30
Outside City Block 3	above 2000 CCF	($/CCF)	$ 8.68	$ 9.14	$ 9.60	$ 10.03	$ 10.33	$ 10.64

Wastewater Volumetric Rates

CUSTOMER CLASS	UNITS	FY 2014 Existing Rates	Test-Year FY 2015 Proposed Rates	Forecast FY 2016 Proposed Rates	Forecast FY 2017 Proposed Rates	Forecast FY 2018 Proposed Rates	Forecast FY 2019 Proposed Rates
Annual % Increase in Rate Revenues		**0.00%**	**7.50%**	**7.00%**	**7.00%**	**4.50%**	**2.00%**
Total Inside City All Classes	($/CCF)	$ 4.80	$ 5.17	$ 5.53	$ 5.92	$ 6.18	$ 6.31
Total Outside City All Classes	($/CCF)	$ 5.29	$ 5.68	$ 6.08	$ 6.51	$ 6.80	$ 6.94

ES-7: SUMMARY OF WATER AND WASTEWATER FIXED CHARGES

	WATER FIXED CHARGES						WASTEWATER FIXED CHARGES					
CUSTOMER CLASS	FY 2014 Existing Charge	Test-Year FY 2015 Proposed Charge	Forecast FY 2016 Proposed Charge	Forecast FY 2017 Proposed Charge	Forecast FY 2018 Proposed Charge	Forecast FY 2019 Proposed Charge	FY 2014 Existing Charge	Test-Year FY 2015 Proposed Charge	Forecast FY 2016 Proposed Charge	Forecast FY 2017 Proposed Charge	Forecast FY 2018 Proposed Charge	Forecast FY 2019 Proposed Charge
Inside City Residential												
5/8"	$ 21.78	$ 22.90	$ 24.05	$ 25.13	$ 25.89	$ 26.66	$ 32.00	$ 34.48	$ 36.90	$ 39.48	$ 41.26	$ 42.08
3/4"	$ 41.86	$ 44.03	$ 46.23	$ 48.31	$ 49.76	$ 51.25	$ 46.92	$ 50.56	$ 54.10	$ 57.89	$ 60.49	$ 61.70
1"	$ 55.28	$ 58.15	$ 61.05	$ 63.80	$ 65.72	$ 67.69	$ 65.34	$ 70.41	$ 75.33	$ 80.61	$ 84.24	$ 85.92
1-1/2"	$ 55.28	$ 58.15	$ 61.05	$ 63.80	$ 65.72	$ 67.69	$ 65.34	$ 70.41	$ 75.33	$ 80.61	$ 84.24	$ 85.92
2"	$ 55.28	$ 58.15	$ 61.05	$ 63.80	$ 65.72	$ 67.69	$ 65.34	$ 70.41	$ 75.33	$ 80.61	$ 84.24	$ 85.92
Inside City Commercial												
5/8"	$ 53.39	$ 55.79	$ 58.58	$ 61.21	$ 63.05	$ 64.94	$ 51.92	$ 55.90	$ 59.81	$ 64.00	$ 66.88	$ 68.21
3/4"	$ 61.26	$ 64.02	$ 67.22	$ 70.25	$ 72.35	$ 74.52	$ 64.43	$ 69.37	$ 74.23	$ 79.42	$ 83.00	$ 84.66
1"	$ 75.10	$ 78.48	$ 82.41	$ 86.11	$ 88.70	$ 91.36	$ 84.71	$ 91.20	$ 97.58	$ 104.41	$ 109.11	$ 111.29
1-1/2"	$ 107.76	$ 112.60	$ 118.23	$ 123.56	$ 127.26	$ 131.08	$ 137.84	$ 148.40	$ 158.79	$ 169.91	$ 177.55	$ 181.10
2"	$ 150.62	$ 157.40	$ 165.27	$ 172.71	$ 177.89	$ 183.22	$ 196.16	$ 211.19	$ 225.97	$ 241.79	$ 252.67	$ 257.73
3"	$ 297.45	$ 310.83	$ 326.37	$ 341.06	$ 351.29	$ 361.83	$ 438.06	$ 471.62	$ 504.64	$ 539.96	$ 564.26	$ 575.55
4"	$ 523.50	$ 547.05	$ 574.40	$ 600.25	$ 618.26	$ 636.81	$ 721.84	$ 777.14	$ 831.54	$ 889.75	$ 929.79	$ 948.39
6"	$ 1,029.43	$ 1,075.75	$ 1,129.54	$ 1,180.37	$ 1,215.78	$ 1,252.25	$ 1,459.95	$ 1,571.80	$ 1,681.82	$ 1,799.55	$ 1,880.53	$ 1,918.14
8"	$ 1,492.88	$ 1,560.05	$ 1,638.05	$ 1,711.77	$ 1,763.12	$ 1,816.01	$ 2,148.21	$ 2,312.79	$ 2,474.68	$ 2,647.91	$ 2,767.07	$ 2,822.41
10"	$ 2,060.75	$ 2,153.48	$ 2,261.16	$ 2,362.91	$ 2,433.80	$ 2,506.81	$ 2,918.39	$ 3,141.97	$ 3,361.91	$ 3,597.24	$ 3,759.12	$ 3,834.30
12"	$ 2,493.12	$ 2,605.31	$ 2,735.57	$ 2,858.67	$ 2,944.43	$ 3,032.77	$ 3,426.23	$ 3,688.72	$ 3,946.93	$ 4,223.22	$ 4,413.26	$ 4,501.52
16"	$ 3,102.64	$ 3,242.25	$ 3,404.36	$ 3,557.56	$ 3,664.28	$ 3,774.21	$ 4,523.95	$ 4,870.53	$ 5,211.47	$ 5,576.27	$ 5,827.20	$ 5,943.74
20"	$ 3,351.18	$ 3,501.98	$ 3,677.08	$ 3,842.54	$ 3,957.82	$ 4,076.56	$ 5,326.87	$ 5,734.96	$ 6,136.41	$ 6,565.96	$ 6,861.42	$ 6,998.65
Outside City Residential												
5/8"	$ 32.48	$ 34.17	$ 35.87	$ 37.49	$ 38.61	$ 39.77	$ 41.01	$ 44.19	$ 47.28	$ 50.59	$ 52.87	$ 53.93
3/4"	$ 62.71	$ 65.95	$ 69.25	$ 72.37	$ 74.54	$ 76.78	$ 56.01	$ 60.35	$ 64.57	$ 69.09	$ 72.20	$ 73.64
1"	$ 82.79	$ 87.08	$ 91.43	$ 95.55	$ 98.42	$ 101.37	$ 76.99	$ 82.96	$ 88.76	$ 94.98	$ 99.25	$ 101.23
1-1/2"	$ 82.79	$ 87.08	$ 91.43	$ 95.55	$ 98.42	$ 101.37	$ 76.99	$ 82.96	$ 88.76	$ 94.98	$ 99.25	$ 101.23
2"	$ 82.79	$ 87.08	$ 91.43	$ 95.55	$ 98.42	$ 101.37	$ 76.99	$ 82.96	$ 88.76	$ 94.98	$ 99.25	$ 101.23
Outside City Commercial												
5/8"	$ 80.13	$ 83.74	$ 87.93	$ 91.88	$ 94.64	$ 97.48	$ 58.12	$ 62.57	$ 66.95	$ 71.64	$ 74.86	$ 76.36
3/4"	$ 91.72	$ 95.84	$ 100.63	$ 105.16	$ 108.32	$ 111.57	$ 73.62	$ 79.26	$ 84.81	$ 90.75	$ 94.83	$ 96.73
1"	$ 112.67	$ 117.74	$ 123.63	$ 129.19	$ 133.07	$ 137.06	$ 98.05	$ 105.56	$ 112.95	$ 120.86	$ 126.30	$ 128.82
1-1/2"	$ 161.79	$ 169.06	$ 177.52	$ 185.51	$ 191.07	$ 196.80	$ 164.80	$ 177.43	$ 189.85	$ 203.14	$ 212.28	$ 216.52
2"	$ 226.09	$ 236.26	$ 248.07	$ 259.24	$ 267.01	$ 275.02	$ 232.43	$ 250.24	$ 267.76	$ 286.50	$ 299.39	$ 305.38
3"	$ 448.47	$ 468.65	$ 492.08	$ 514.23	$ 529.65	$ 545.54	$ 522.87	$ 562.93	$ 602.33	$ 644.49	$ 673.50	$ 686.97
4"	$ 785.37	$ 820.71	$ 861.74	$ 900.52	$ 927.53	$ 955.36	$ 886.01	$ 953.89	$ 1,020.66	$ 1,092.10	$ 1,141.25	$ 1,164.07
6"	$ 1,543.87	$ 1,613.34	$ 1,694.00	$ 1,770.23	$ 1,823.34	$ 1,878.04	$ 1,770.13	$ 1,905.74	$ 2,039.14	$ 2,181.88	$ 2,280.07	$ 2,325.67
8"	$ 2,239.47	$ 2,340.24	$ 2,457.26	$ 2,567.63	$ 2,644.87	$ 2,724.21	$ 2,646.52	$ 2,849.27	$ 3,048.72	$ 3,262.13	$ 3,408.93	$ 3,477.11
10"	$ 3,107.48	$ 3,247.30	$ 3,409.67	$ 3,563.10	$ 3,670.00	$ 3,780.10	$ 3,522.54	$ 3,792.41	$ 4,057.88	$ 4,341.93	$ 4,537.31	$ 4,628.06
12"	$ 3,739.51	$ 3,907.77	$ 4,103.16	$ 4,287.60	$ 4,416.44	$ 4,548.93	$ 4,132.57	$ 4,449.17	$ 4,760.62	$ 5,093.86	$ 5,323.08	$ 5,429.54
16"	$ 4,653.87	$ 4,863.28	$ 5,106.44	$ 5,336.23	$ 5,496.32	$ 5,661.21	$ 5,497.91	$ 5,919.11	$ 6,333.45	$ 6,776.79	$ 7,081.75	$ 7,223.38
20"	$ 5,463.82	$ 5,709.67	$ 5,995.16	$ 6,264.94	$ 6,452.89	$ 6,646.48	$ 6,532.02	$ 7,032.44	$ 7,524.72	$ 8,051.45	$ 8,413.76	$ 8,582.04

1.5 TRANSITION FROM DWSD TO KWA

A key aspect of this study involved analyzing the impact of the anticipated April 1, 2014 transition from the Detroit Water and Sewerage District ("DWSD") to the Karegnondi Water Authority ("KWA"). The expectation is that the transition will strengthen the water utility's financial position going forward, by affording the City greater control over its operating and capital costs. As part of this engagement the City asked RFC to estimate the potential savings to a typical Flint customer as a result of transitioning from DWSD to the KWA.

A summary of the potential savings, based on an alternative water financial planning scenario is summarized in Table ES-8 below. For example, a City customer using 5 CCF per month would see a combined monthly bill of approximately $122.83 under the KWA. This is based on a 5% water rate increase over existing rates. That same customer, should the City continue receiving service from DWSD, is estimated to have a bill of approximately $127.70. This represents estimated 13% water rate increase over existing rates. Consequently, the savings to the typical City is approximately $4.87 per month, or $58.44 per year. Finally, note that the cumulative water rate increase over the next 5 years is estimated to be 18% under the KWA and 41% under DWSD.

ES-8: POTENTIAL RESIDENTIAL BILL SAVINGS (KWA VS. DWSD)

Cumulative Increase KWA (Water Rates)	**0%**	**5%**	**10%**	**15%**	**19%**	**22%**
Additional With DWSD (Water Rates)	**0%**	**9%**	**19%**	**20%**	**21%**	**21%**
Total Under DWSD	**0%**	**14%**	**29%**	**35%**	**39%**	**44%**

RATE IMPACT 5/8" Customer	**FY 2014**	**FY 2015**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**
Monthly Usage (CCF)						
1	$ 66.10	$ 70.48	$ 74.79	$ 79.22	$ 82.28	$ 84.27
2	$ 78.41	$ 83.57	$ 88.64	$ 93.83	$ 97.41	$ 99.80
3	$ 90.73	$ 96.66	$102.49	$108.44	$112.55	$115.33
4	$103.05	$109.74	$116.33	$123.05	$127.68	$130.85
5	$115.37	$122.83	$130.18	$137.65	$142.82	$146.38
6	$127.69	$135.92	$144.03	$152.26	$157.95	$161.91
7	$140.00	$149.01	$157.88	$166.87	$173.09	$177.44
8	$152.32	$162.10	$171.72	$181.48	$188.23	$192.97
9	$164.64	$175.19	$185.57	$196.09	$203.36	$208.49
10	$176.96	$188.28	$199.42	$210.70	$218.50	$224.02

ESTIMATED MONTHLY SAVINGS	**FY 2014**	**FY 2015**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**
Monthly Usage (CCF)						
1	$ -	$ (2.42)	$ (5.37)	$ (5.80)	$ (5.98)	$ (6.15)
2	$ -	$ (3.04)	$ (6.74)	$ (7.28)	$ (7.50)	$ (7.72)
3	$ -	$ (3.65)	$ (8.11)	$ (8.76)	$ (9.02)	$ (9.29)
4	$ -	$ (4.26)	$ (9.47)	$ (10.23)	$ (10.54)	$ (10.86)
5	$ -	$ (4.87)	$ (10.84)	$ (11.71)	$ (12.06)	$ (12.42)
6	$ -	$ (5.48)	$ (12.21)	$ (13.19)	$ (13.58)	$ (13.99)
7	$ -	$ (6.09)	$ (13.58)	$ (14.67)	$ (15.11)	$ (15.56)
8	$ -	$ (6.71)	$ (14.94)	$ (16.14)	$ (16.63)	$ (17.13)
9	$ -	$ (7.32)	$ (16.31)	$ (17.62)	$ (18.15)	$ (18.69)
10	$ -	$ (7.93)	$ (17.68)	$ (19.10)	$ (19.67)	$ (20.26)

1.6 WATER AND WASTEWATER UTILITY OPERATIONS AND BEST MANAGEMENT PRACTICES

We reviewed the City's water and wastewater utility performance in relation to Best Management Practices ("BMP") that have been published by Fitch Ratings ("Fitch"). These criteria are used by Fitch when reviewing the performance of a utility as part of the bond rating process. Table ES-9 below summarizes our assessment of the City's water and wastewater utility operations with respect to BMP. The City's operations generally comport with BMP. The City is working to improve consistency in four areas: first, as mentioned above, the financial plans build-up to the minimum recommended 90 operating reserve and should achieve this reserve, all else equal, in the next 5 years. Second, the City is working with RFC, under a separate contract, to identify sources of lost water and wastewater revenue to improve the City's revenue collections, and reduce the cost of utility service theft to paying customers. Third, the City is currently determining arrangements whereby the general fund can repay its obligations to the water and wastewater utilities, ensuring the water and wastewater funds are not subsidizing general government operations going forward. Finally, the transition to KWA will allow the City greater control over its operating and capital costs, and as mentioned above, should result in more affordable rates than the alternative.

ES-9: FITCH BEST MANAGEMENT PRACTICES

Criteria	Consistent	Improving	Inconsistent
Financial Profile			
Financial Forecasting	✖		
Debt Service Coverage and Operating Reserves		✖	
Financial Reporting and Monitoring	✖		
Limited Exposure to Growth Revenues	✖		
Timely Collection of Payment and Penalty Enforcment		✖	
Political Willingness to Adjust Rates	✖		
Limited Exposure to General Govt. Finances		✖	
GAAP Compliance	✖		
Affordability		----------	✖ ----------
Debt Profile			
Prioritized Capital Improvement Plans	✖		
Debt Policy	✖		
Hedge Agreements			
Operating Profile			
Management Experience	✖		
Use of Professional Engineers	✖		
Consultation with Local/Regional Growth Planners	✖		

2. INTRODUCTION AND STUDY OBJECTIVES

2.1 INTRODUCTION

In November of 2013, the City of Flint ("City") engaged Raftelis Financial Consultants ("RFC") to perform water and wastewater utility rate studies. The need for engagement was precipitated by the City's transition from the use of purchased water from the Detroit Water and Sewerage District ("DWSD") to participation in the Karegnondi Water Authority ("KWA") on April 1, 2014. Following the transition, the City will treat raw water from the KWA at its existing water treatment plant, which is currently undergoing the improvements necessary to become the primary source of treated water for the City of Flint. The expectation is that the transition will strengthen the water utility's financial position going forward, affording the City greater control over its operating and capital costs as a result.

From a financial perspective, the following are a few notable aspects of the transition:

- Water Operation and Maintenance ("O&M") expenditures are projected to decrease significantly as the cost of purchasing water from DWSD ceases as of FY 2015,
- Water Capital costs are projected to increase as the City begins paying its share of the Karegnondi Water Authority's debt service and incurs the cost of the necessary water treatment plant improvements.
- Water utility revenues will decrease as the City's wholesale customer, Genesee County ("County"), will no longer be receiving water service from the City as a result of the transition
- Projected water increases under the KWA are projected to be lower than they would have been, had the City continued to purchase water from DWSD
- City of Flint residential customer water bills are projected to be lower under the KWA than if the City had continued to purchase water from DWSD (see Table 1 below).

TABLE 1: ESTIMATED RATE INCREASES (KWA VS. DWSD)

CUMULATIVE % RATE REVENUE INCREASE	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
KWA	0%	5%	10%	15%	19%	22%
DWSD	0%	14%	29%	35%	39%	44%
ESTIMATED MONTHLY SAVINGS	**FY 2014**	**FY 2015**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**
Monthly Usage (CCF)						
1	$ -	$ (2.42)	$ (5.37)	$ (5.80)	$ (5.98)	$ (6.15)
2	$ -	$ (3.04)	$ (6.74)	$ (7.28)	$ (7.50)	$ (7.72)
3	$ -	$ (3.65)	$ (8.11)	$ (8.76)	$ (9.02)	$ (9.29)
4	$ -	$ (4.26)	$ (9.47)	$ (10.23)	$ (10.54)	$ (10.86)
5	$ -	$ (4.87)	$ (10.84)	$ (11.71)	$ (12.06)	$ (12.42)
6	$ -	$ (5.48)	$ (12.21)	$ (13.19)	$ (13.58)	$ (13.99)
7	$ -	$ (6.09)	$ (13.58)	$ (14.67)	$ (15.11)	$ (15.56)
8	$ -	$ (6.71)	$ (14.94)	$ (16.14)	$ (16.63)	$ (17.13)
9	$ -	$ (7.32)	$ (16.31)	$ (17.62)	$ (18.15)	$ (18.69)
10	$ -	$ (7.93)	$ (17.68)	$ (19.10)	$ (19.67)	$ (20.26)

2.2 RATE STUDY OBJECTIVES

The objectives of this study are as follows:

- Evaluate the adequacy of existing water and wastewater revenues to meet the projected revenue requirements
- Develop comprehensive water and wastewater financial plans based on sound financial management practices for a 10 year forecast period
- Determine water and wastewater rates which adequately recover the cost of operating the water and wastewater utilities under the existing rate structures and provide alternatives based on a comprehensive cost of service study
- Evaluate the City's current financial position and adjust the comprehensive financial plans for both the mid-year transition to the KWA and going forward.

3. WATER AND WASTEWATER UTILITY FINANCIAL PLANS

3.1 THE FINANCIAL PLANNING PROCESS

The general objective of the financial planning process is to arrive at the level of water and wastewater rate revenue required to ensure the financial sustainability of each utility on a going forward basis. This revenue requirement is then distributed to each customer class as part of the cost of service study.

For this study financial plans were developed for the current fiscal year, the test year and a ten-year forecast period. The current year is typically the year in which the study occurs, in this case fiscal year 2014 ("FY 2014"), or the year ending July 30, 2014. For the current year the financial plans represent an estimate, for each utility, of year-end financial position.

This serves as the basis for the test year financial plan. For this study, the test year is the following fiscal year, FY 2015. While the current year serves as an estimate of each utility's current financial position, the test year represents a projection of utility revenues, expenditures and operating reserve levels. The ten-year forecast period allows the City to evaluate trends over time and evaluate the impact of challenges that occur beyond the test year. For the purposes of this study separate financial plans were developed for each utility to ensure that each would be self-sustaining.

The following steps are necessary to arrive at the test year revenue requirement for each utility:

- Forecast customer units of service and revenue at existing water and wastewater rates
- Forecast operation and maintenance expenditures ("O&M") for each utility
- Forecast capital expenditures, including the payment of existing water and wastewater debt service and the financing of planned capital improvements
- Develop detailed cash flow forecasts summarizing planned O&M and capital expenditures, recommended rate revenue increases and operating reserve levels

3.2 WATER UTILITY FINANCIAL PLAN

3.2.1 Forecast Water Units of Service and Revenue at Existing Rates

Water Utility Rates

The City recovers the cost of operating the water utility via volumetric rates (rates based on the amount of water used) and fixed monthly service charges (a charge per customer bill). The City's existing water volumetric charge is a declining block rate, or a rate that decreases on a per unit basis as the amount of water consumed increases. The existing water volumetric rate structure is shown in Table 2 below:

TABLE 2: EXISTING WATER VOLUMETRIC RATES

CUSTOMER CLASS	CONSUMPTION BLOCK	UNITS	FY 2014 Existing Block Rates
Total Inside City All Classes			
Inside City Block 1	0-35 CCF	($/CCF)	$ 7.52
Inside City Block 2	36-2000 CCF	($/CCF)	$ 7.31
Inside City Block 3	above 2000 CCF	($/CCF)	$ 5.79
Total Outside City All Classes			
Outside City Block 1	0-35 CCF	($/CCF)	$ 11.26
Outside City Block 2	36-2000 CCF	($/CCF)	$ 10.77
Outside City Block 3	above 2000 CCF	($/CCF)	$ 8.68

A distinction is made between customers residing within in the City of Flint, and those who receive City water service, but do not reside within the City. As Table 2 indicates, outside city volumetric rates are approximately 150% of inside city volumetric rates. This is a common policy for municipal water utilities and recognizes inside city customers as "owners" of the utility, who should be compensated for the risk of investing in and maintaining their utility system.

In addition to the volumetric rates, the existing water rate structure includes a fixed service charge which varies by customer water meter size. The rates are charged per customer bill and are shown in Table 3 on the following page.

TABLE 3: EXISTING WATER FIXED CHARGES

CUSTOMER CLASS	FY 2014 Proposed Fixed Charge
Inside City Residential Customers	
5/8'	$ 21.78
3/4'	$ 41.86
1"	$ 55.20
1-1/2'	$ 55.28
2"	$ 55.28
Inside City Commercial/Industrial Customers	
5/8'	$ 50.09
3/4'	$ 51.20
1"	$ 75.10
1-1/2'	$ 107.76
2"	$ 160.62
3"	$ 207.45
4"	$ 520.50
6"	$ 1,059.43
8"	$ 1,492.88
10'	$ 2,060.75
12'	$ 2,483.12
16'	$ 3,102.64
20'	$ 3,951.10
Outside City Residential Customers	
5/8'	$ 32.48
3/4'	$ 62.71
1"	$ 82.79
1-1/2'	$ 82.79
2"	$ 82.79
Outside City Commercial/Industrial Customers	
5/8'	$ 60.10
3/4'	$ 61.72
1"	$ 112.87
1-1/2'	$ 161.79
2"	$ 226.09
3"	$ 448.47
4"	$ 765.37
6"	$ 1,543.87
8"	$ 2,259.47
10'	$ 3,107.48
12'	$ 3,739.61
16'	$ 4,663.87
20'	$ 5,463.02

Most Flint residential customers have a 5/8" meter and currently pay the $21.78 fixed monthly service charge. For the monthly fixed charge the same distinction is made between inside and outside city customers, with the outside city charge set at approximately 150% of the inside city

charge. Additionally, the current fixed charge structure further distinguishes between residential commercial customers.

In addition to the retail rates discussed above, the City currently serves a wholesale water customer, Genesee County. Genesee County pays a commodity charge of $346,863, a fixed monthly service charge of $114,000 and a volumetric rate of $1.30 per CCF. As mentioned above, as of April 1, 2014, the County will no longer be a customer of the City.

Forecast Water Units of Service

In order to forecast the level of revenue under existing water rates, the number of water accounts at each meter size and the level of water consumption in each consumption block must be estimated for the forecast period.

The number of accounts at each meter size was determined by dividing the number of annual bills at each meter size by the 12 monthly billing periods. The number of historical and forecast water utility customer accounts, by meter size, is indicated in Tables 4 and 5 on the following two pages. Note that the historical data appear to indicate a 14% increase in inside city accounts and a 27% increase in outside city accounts from FY 2012 to FY 2013. This increase in accounts does not appear to have been sustained into FY 2014. The City has indicated that water and wastewater billings have decreased approximately 12% from FY 2013 to FY 2014 year to date. Given this change and for the sake of developing a conservative estimate we have adjusted the forecast level of water accounts to 13% below their FY 2013 level. As no significant growth in the City's customer base is expected, no growth in water utility accounts has been projected over the forecast period.

TABLE 4: FORECAST INSIDE CITY WATER ACCOUNTS

Customer Class	Historical FY 2012	Historical FY 2013	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Inside City Residential														
5/8"	25,003	28,480	24,777	24,777	24,777	24,777	24,777	24,777	24,777	24,777	24,777	24,777	24,777	24,777
3/4"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1"	272	338	294	294	294	294	294	294	294	294	294	294	294	294
1-1/2"	26	33	29	29	29	29	29	29	29	29	29	29	29	29
2"	9	11	9	9	9	9	9	9	9	9	9	9	9	9
3"			-	-	-	-	-	-	-	-	-	-	-	-
Unmetered			-	-	-	-	-	-	-	-	-	-	-	-
Total Inside City Residential Remote	25,310	29,062	25,110	25,110	25,110	25,110	25,110	25,110	25,110	25,110	25,110	25,110	25,110	25,110
Inside City Commercial/Industrial														
5/8"	382	409	356	356	356	356	356	356	356	356	356	356	356	356
3/4"														
1"	245	281	244	244	244	244	244	244	244	244	244	244	244	244
1 1/2"	350	270	242	242	242	242	242	242	242	242	242	242	242	242
2"	250	286	249	249	249	249	249	249	249	249	249	249	249	249
3"	91	95	83	83	83	83	83	83	83	83	83	83	83	83
4"	59	63	55	55	55	55	55	55	55	55	55	55	55	55
6"	36	41	36	36	36	36	36	36	36	36	36	36	36	36
8"	2	2	2	2	2	2	2	2	2	2	2	2	2	2
10"			-	-	-	-	-	-	-	-	-	-	-	-
12"			-	-	-	-	-	-	-	-	-	-	-	-
16"			-	-	-	-	-	-	-	-	-	-	-	-
20"			-	-	-	-	-	-	-	-	-	-	-	-
Unmetered			-	-	-	-	-	-	-	-	-	-	-	-
Total Inside City Commercial/Industrial	1,907	1,907	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208
Inside City Lawn														
5/8"	28	35	30	30	30	30	30	30	30	30	30	30	30	30
3/4"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1"	11	13	11	11	11	11	11	11	11	11	11	11	11	11
1-1/2"	4	5	4	4	4	4	4	4	4	4	4	4	4	4
2"	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3"														
4"		-	-	-	-	-	-	-	-	-	-	-	-	-
6"														
8"		-	-	-	-	-	-	-	-	-	-	-	-	-
10"		-	-	-	-	-	-	-	-	-	-	-	-	-
12"		-	-	-	-	-	-	-	-	-	-	-	-	-
16"		-	-	-	-	-	-	-	-	-	-	-	-	-
20"		-	-	-	-	-	-	-	-	-	-	-	-	-
Unmetered		-	-	-	-	-	-	-	-	-	-	-	-	-
Total Inside City Lawn	43	53	46	46	46	46	46	46	46	46	46	46	46	46
Total Inside City Accounts	26,661	30,372	26,423	25,423	26,423	26,423	26,423	26,423	26,423	26,423	25,423	26,423	26,423	26,423
% Change		14%	-13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

TABLE 5: FORECAST OUTSIDE CITY WATER ACCOUNTS

Customer Class	Historical FY 2012	Historical FY 2013	Budget Ye FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Outside City Residential														
5/8"	108	141	123	123	123	123	123	123	123	123	123	123	123	123
3/4"		0	-	-	-	-	-	-	-	-	-	-	-	-
1"	2	3	3	3	3	3	3	3	3	3	3	3	3	3
1-1/2"		0	-	-	-	-	-	-	-	-	-	-	-	-
2"		0	-	-	-	-	-	-	-	-	-	-	-	-
Unmetered		0	-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City Residential Remote	110	144	125	125	125	125	125	125	125	125	125	125	125	125
Outside City Commercial/Industrial														
5/8"	14	16	13	13	13	13	13	13	13	13	13	13	13	13
3/4"		-	-	-	-	-	-	-	-	-	-	-	-	-
1"	10	12	11	11	11	11	11	11	11	11	11	11	11	11
1-1/2"	3	4	3	3	3	3	3	3	3	3	3	3	3	3
2"	6	7	6	6	6	6	6	6	6	6	6	6	6	6
3"		-	-	-	-	-	-	-	-	-	-	-	-	-
4"	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6"	1	0	0	0	0	0	0	0	0	0	0	0	0	0
8"		-	-	-	-	-	-	-	-	-	-	-	-	-
10"		-	-	-	-	-	-	-	-	-	-	-	-	-
12"		-	-	-	-	-	-	-	-	-	-	-	-	-
16"		-	-	-	-	-	-	-	-	-	-	-	-	-
20"		-	-	-	-	-	-	-	-	-	-	-	-	-
Unmetered		-	-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City Commercial/Industrial	35	40	35	35	35	35	35	35	35	35	35	35	35	35
Outside City Lawn														
5/8"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
3/4"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
1"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
1-1/2"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
2"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
3"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
4"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
6"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
8"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
10"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
12"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
16"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
20"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
Unmetered	0	0	-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City Lawn	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City Accounts	145	184	160	160	160	160	160	160	160	160	160	160	160	160
% Change		**27%**	**-13%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**

In addition to forecasting the number of accounts by meter size, the level of water consumption in each consumption block must be estimated for the forecast period. The historical and forecast level of water consumption by customer class and block is indicated in Tables 6 and 7 on the following two pages.

Note that—consistent with the significant increase in inside city water accounts in FY 2013—inside city water consumption has increased significantly in FY 2013 (18%). Given the uncertainty surrounding the increase in billed consumption in FY 2013, and the subsequent decrease in billed revenues in FY 2014, we have forecast retail consumption at 6% below FY 2013 levels for FY 2014, FY 2015 and the remainder of the ten year forecast period.

As noted above, the City anticipates discontinuing DWSD water service as of April 1, 2014. At that point Genesee County will no longer be a wholesale customer of the City. Therefore the forecast of the County's consumption has been adjusted to account for the final 3 months of FY 2014 (i.e. April, May and June) during which the City will not be providing water service to the County.

TABLE 6: FORECAST INSIDE CITY WATER CONSUMPTION

Customer Class		Historical FY 2012	Historical FY 2013	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Inside City Residential															
Inside City Block 1	0-35	1,540,554	1,726,695	1,625,913	1,625,913	1,625,913	1,625,913	1,625,913	1,625,913	1,625,913	1,625,913	1,625,913	1,625,913	1,625,913	1,625,913
Inside City Block 2	36-2000	149,659	89,264	88,599	88,599	88,599	88,599	88,599	88,599	88,599	88,599	88,599	88,599	88,599	88,599
Inside City Block 3	above 2000		33,003	31,023	31,023	31,023	31,023	31,023	31,023	31,023	31,023	31,023	31,023	31,023	31,023
Total Inside City Residential		1,690,213	1,850,962	1,745,535	1,745,535	1,745,535	1,745,535	1,745,535	1,745,535	1,745,535	1,745,535	1,745,535	1,745,535	1,745,535	1,745,535
Inside City Commercial/Industrial															
Inside City Block 1	0-35	100,122	116,822	111,702	111,702	111,702	111,702	111,702	111,702	111,702	111,702	111,702	111,702	111,702	111,702
Inside City Block 2	36-2000	802,340	916,099	860,757	860,757	860,757	860,757	860,757	860,757	860,757	860,757	860,757	860,757	860,757	860,757
Inside City Block 3	above 2000	378,939	544,447	511,780	511,780	511,780	511,780	511,780	511,780	511,780	511,780	511,780	511,780	511,780	511,780
Total Inside City Commercial/Industrial		1,290,311	1,577,378	1,484,239	1,484,239	1,484,239	1,484,239	1,484,239	1,484,239	1,484,239	1,484,239	1,484,239	1,484,239	1,484,239	1,484,239
Inside City Lawn															
Inside City Block 1	0-35	4,193	6,956	5,504	5,504	5,504	5,504	5,504	5,504	5,504	5,504	5,504	5,504	5,504	5,504
Inside City Block 2	36-2000	5,935	7,504	7,002	7,002	7,002	7,002	7,002	7,002	7,002	7,002	7,002	7,002	7,002	7,002
Inside City Block 3	above 2000			-	-	-	-	-	-	-	-	-	-	-	-
Total Inside City Lawn		10,128.00	14,459.00	12,505.66	12,505.66	12,505.66	12,505.66	12,505.66	12,505.66	12,505.66	12,505.66	12,505.66	12,505.66	12,505.66	12,505.66
Total Inside City All Classes															
Inside City Block 1	0-35	1,644,869	1,850,473	1,743,119	1,743,119	1,743,119	1,743,119	1,743,119	1,743,119	1,743,119	1,743,119	1,743,119	1,743,119	1,743,119	1,743,119
Inside City Block 2	36-2000	957,934	1,012,867	956,438	956,438	956,438	956,438	956,438	956,438	956,438	956,438	956,438	956,438	956,438	956,438
Inside City Block 3	above 2000	378,939	577,450	542,803	542,803	542,803	542,803	542,803	542,803	542,803	542,803	542,803	542,803	542,803	542,803
Grand Total Inside City Water Consumption		2,981,742	3,440,790	3,242,360	3,242,360	3,242,360	3,242,360	3,242,360	3,242,360	3,242,360	3,242,360	3,242,360	3,242,360	3,242,360	3,242,360
			15%	-6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

TABLE 7: FORECAST OUTSIDE CITY WATER CONSUMPTION

Customer Class	Historical FY 2012	Historical FY 2013	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Outside City Residential														
Outside City Block 1 0-35	6,932	7,603	7,220	7,220	7,220	7,220	7,220	7,220	7,220	7,220	7,220	7,220	7,220	7,220
Outside City Block 2 35-2000	68	640	894	894	894	894	894	894	894	894	894	894	894	894
Outside City Block 3 above 2,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City Residential	6,720	8,630	8,112	8,112	8,112	8,112	8,112	8,112	8,112	8,112	8,112	8,112	8,112	8,112
Outside City Commercial/Industrial														
Outside City Block 1 0-35	3,272	3,603	3,209	3,209	3,209	3,209	3,209	3,209	3,209	3,209	3,209	3,209	3,209	3,209
Outside City Block 2 35-2000	5,878	10,523	9,607	9,607	9,607	9,607	9,607	9,607	9,607	9,607	9,607	9,607	9,607	9,607
Outside City Block 3 above 2,000	37,368	14,314	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361
Total Outside City Commercial/Industrial	42,518	27,643	26,266	26,266	26,266	26,266	26,266	26,266	26,266	26,266	26,266	26,266	26,266	26,266
Outside City Law														
Outside City Block 1 0-35	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Outside City Block 2 35-2000														
Outside City Block 3 above 2,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City Law	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City All Classes														
Outside City Block 1 0-35	9,774	11,199	10,527	10,527	10,527	10,527	10,527	10,527	10,527	10,527	10,527	10,527	10,527	10,527
Outside City Block 2 35-2000	5,966	11,163	10,480	10,490	10,490	10,490	10,490	10,480	10,480	10,480	10,490	10,490	10,490	10,490
Outside City Block 3 above 2,000	37,368	14,314	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361
Grand Total Inside City Water Consumption	49,638	36,673	34,370	34,370	34,370	34,370	34,370	34,370	34,370	34,370	34,370	34,370	34,370	34,370
RETAIL														
Total Block 1	1,860,010	1,065,801	1,750,648	1,750,648	1,750,648	1,750,648	1,750,648	1,750,648	1,750,648	1,750,648	1,750,648	1,750,648	1,750,648	1,750,648
Total Block 2	896,060	1,028,647	866,029	866,029	866,029	866,029	866,029	866,029	866,029	866,029	866,029	866,029	866,029	866,029
Total Block 3	416,227	401,684	556,164	556,164	556,164	556,164	556,164	556,164	556,164	556,164	556,164	556,164	556,164	556,164
Grand Total Retail Consumption	3,064,310	3,496,502	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738
		14%	-6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
WHOLESALE														
Genesee County Wholesale Rate														
Genesee County Consumption	6,121,641	5,714,741	4,661,169	-	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL WATER CONSUMPTION	9,185,950	9,211,243	7,937,907	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738
		0%	-14%	-59%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Forecast Water Revenue at Existing Rates

Water utility revenue at existing rates is the sum of the volumetric and fixed charge revenue. Fixed charge revenue at existing rates was determined by multiplying the number of forecast accounts at each meter size, by the existing rate for that size and again by 12, for each of the monthly bills. Volumetric revenue was determined by multiplying the level of consumption in each consumption block, by the existing rate for that block. Table 8 on the following page summarizes the level of water revenue at existing water rates.

The total level of water revenue at existing rates in FY 2014 is forecast to be approximately $43 Million. Of this, around 70% is derived from the volumetric rates and 30% is associated with the fixed monthly service charges. In FY 2015, the level of revenue at existing rates is forecast to decline to approximately $32 Million. This change can be attributed to the loss of Flint's existing wholesale customer Genesee County, which will occur as a result of the City's discontinuing DWSD water service. On a going forward basis, the level of revenues at existing water rates would remain at 32 Million assuming consumption and account growth remain flat and the City makes no adjustments to water rates.

TABLE 8: FORECAST WATER REVENUE AT FY 2014 RATES

SUMMARY OF FORECAST WATER RATE REVENUE AT EXISTING RATES												
Customer Class	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
GRAND TOTAL SYSTEM CONSUMPTION REVENUE	$29,651,665	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633
GRAND TOTAL SYSTEM FIXED CHARGE REVENUE	$13,322,709	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942
GRAND TOTAL WATER REVENUE AT EXISTING RATES	$42,974,374	$32,762,575	$32,762,575	$32,762,575	$32,762,575	$32,762,575	$32,762,575	$32,762,575	$32,762,575	$32,762,575	$32,762,575	$32,762,575
SUMMARY OF METERED WATER REVENUE												
Customer Class	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
TOTAL RETAIL CONSUMPTION REVENUE												
Total Inside City Residential	$13,141,856	$13,141,856	$13,141,856	$13,141,856	$13,141,856	$13,141,856	$13,141,856	$13,141,856	$13,141,856	$13,141,856	$13,141,856	$13,141,856
Total Inside City Commercial/Industrial	$10,352,630	$10,352,630	$10,352,630	$10,352,630	$10,352,630	$10,352,630	$10,352,630	$10,352,630	$10,352,630	$10,352,630	$10,352,630	$10,352,630
Total Inside City Lawn	$ 93,146	$ 93,146	$ 93,146	$ 93,146	$ 93,146	$ 93,146	$ 93,146	$ 93,146	$ 93,146	$ 93,146	$ 93,146	$ 93,146
	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633
WHOLESALE CONSUMPTION REVENUE												
Genesee County Consumption	$ 6,064,033	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GRAND TOTAL SYSTEM CONSUMPTION REVENUE	$29,651,665	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633
SUMMARY OF FIXED CHARGE WATER REVENUE												
Customer Class	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
TOTAL RETAIL FIXED CHARGE REVENUE												
Total Inside City Residential	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537
Total Inside City Commercial/Industrial	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266
Total Inside City Lawn	$ 36,139	$ 36,139	$ 36,139	$ 36,139	$ 36,139	$ 36,139	$ 36,139	$ 36,139	$ 36,139	$ 36,139	$ 36,139	$ 36,139
	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942
WHOLESALE FIXED CHARGE REVENUE												
Total Genesee County Fixed Charge	$ 4,147,767	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GRAND TOTAL SYSTEM FIXED CHARGE REVENUE	$13,322,709	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942

3.2.2 Forecast of Water Operation and Maintenance Expenditures

Water O&M Inflation Rates

The budgets provided by the City are the basis for the forecast of water utility O&M expenditures. Given that the transition from DWSD to KWA involves significant shifts in budgetary expenditures on a relatively detailed level, the City provided uninflated estimates of budgeted O&M expenditures for FY 2014 through FY 2017. To forecast the level of water utility O&M expenditures that the City would incur over the forecast period we applied the escalation rates shown in Table 9 below.

TABLE 9: WATER O&M ESCALATION RATES

Category	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Wages & Salaries	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Benefits	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Pension	0%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Medical	0%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%
Materials/Supplies	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
General	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Vehicle	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Pilot	0%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Depr c/Deplc Equip Replace	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Cost Alloc Plan-Expense	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Utilities	0%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Maintenance	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Capital Outlay	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Water Supply Costs	0%	0%	0%	0%	5%	5%	5%	5%	5%	5%	5%	5%
KWA Bond Payment	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
KWA Initiation Fee	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Purchase of KWA raw water	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transfer to 101	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transfer to 493	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

The rates shown above were developed based on discussions with City staff, and our experience with similar utilities.

Forecast Water Utility Operation and Maintenance Expenditures

Tables 10 and 11 on the following page indicate the estimated level of water utility O&M expenditures over the forecast period, both by the escalation rate categories and by department.
In FY 2014, the largest O&M expenditures related to the "Water Plant-Operations" department within which the bulk water purchases from DWSD were included. Note that this amount decreases significantly in FY 2015 and going forward as the City transitions from DWSD to KWA. Excluding purchased water, the most notable expenditures are associated with personnel: Wages and Salaries, Benefits, Pension, and the City's share of retiree healthcare benefits ("Cost Alloc. Plan-Expense"). In general, water O&M expenditures are projected to decrease from around $36 Million currently to $21 Million in FY 2015 with inflationary increases thereafter.

TABLE 10: WATER O&M BY CATEGORY

O&M SUMMARY (BY EXPENDITURE CATEGORY)

Category	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Wages & Salaries	$ 3,228,167	$ 3,672,236	$ 3,782,403	$ 3,896,876	$ 4,012,761	$ 4,133,131	$ 4,257,128	$ 4,384,842	$ 4,516,337	$ 4,651,378	$ 4,790,199	$ 4,933,178
Benefits	$ 1,187,924	$ 1,223,552	$ 1,260,269	$ 1,298,077	$ 1,337,019	$ 1,377,130	$ 1,418,443	$ 1,460,997	$ 1,504,827	$ 1,549,971	$ 1,596,471	$ 1,644,365
Pension	$ 1,903,168	$ 1,890,252	$ 1,967,915	$ 2,087,511	$ 2,191,676	$ 2,301,261	$ 2,416,323	$ 2,537,139	$ 2,663,996	$ 2,797,196	$ 2,937,056	$ 3,083,909
Medical	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Materials/Supplies	$ 1,615,800	$ 2,503,724	$ 2,578,836	$ 2,328,283	$ 2,398,234	$ 2,470,181	$ 2,544,287	$ 2,620,615	$ 2,699,234	$ 2,780,211	$ 2,863,617	$ 2,949,526
General	$ 3,311,332	$ 3,448,200	$ 3,548,589	$ 3,652,586	$ 3,762,576	$ 3,875,453	$ 3,991,717	$ 4,111,468	$ 4,234,812	$ 4,361,357	$ 4,492,718	$ 4,627,464
Vehicle	$ 650,206	$ 602,206	$ 702,672	$ 723,753	$ 745,465	$ 767,829	$ 790,864	$ 814,590	$ 839,028	$ 864,199	$ 890,124	$ 916,828
Pilot	$ 740,150	$ 754,953	$ 770,052	$ 785,453	$ 801,162	$ 817,185	$ 833,529	$ 850,200	$ 867,204	$ 884,548	$ 902,239	$ 920,283
Depr/Depl o Equip Replac	$	$	$	$	$	$	$	$	$	$	$	$
Cost Alloc Plant Expense	$ 4,040,200	$ 4,101,618	$ 4,260,073	$ 4,416,278	$ 4,547,781	$ 4,684,103	$ 4,824,066	$ 4,968,428	$ 5,116,511	$ 5,272,307	$ 5,430,228	$ 5,593,135
Utilities	$ 910,300	$ 1,595,200	$ 1,637,808	$ 1,467,548	$ 1,506,685	$ 1,687,732	$ 1,861,241	$ 1,717,291	$ 1,736,983	$ 1,357,422	$ 1,931,715	$ 2,008,988
Maintenance	$ 187,200	$ 422,300	$ 434,060	$ 448,218	$ 461,160	$ 476,302	$ 490,661	$ 504,248	$ 519,376	$ 534,957	$ 551,006	$ 567,536
Capital Outlay	$ 60,200	$ 30,900	$ 31,827	$ 32,782	$ 33,765	$ 34,778	$ 35,822	$ 36,896	$ 38,003	$ 39,143	$ 40,317	$ 41,527
Water Supply Costs	$ 18,000,300	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KWA Bond Payment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KWA Initation Fee	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Purchase of KWA raw water	$ -	$ -	$ -	$ 1,051,000	$ 1,051,000	$ 1,051,000	$ 1,051,000	$ 1,051,000	$ 1,051,000	$ 1,051,000	$ 1,051,000	$ 1,051,000
Transfer to 101	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000
Transfer to 403	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	$ 38,865,206	$ 21,400,441	$ 22,140,012	$ 23,316,857	$ 23,999,691	$ 24,706,143	$ 25,494,803	$ 26,199,715	$ 26,960,960	$ 27,774,449	$ 28,807,027	$ 29,469,760

TABLE 11: WATER O&M BY DEPARTMENT

O&M DETAIL FOR FISCAL YEAR ENDED JUNE 30

DEPARTMENT	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Total Dept 530 100-Utilities - Water Administration	$ 7,492,304	$ 7,713,511	$ 7,946,402	$ 8,179,197	$ 8,419,859	$ 8,667,642	$ 8,923,374	$ 9,180,450	$ 9,467,512	$ 9,730,090	$ 10,024,288	$ 10,320,548
Total Dept 536 200-Utilities - Water Cross Connection Prg	$ 104,509	$ 108,904	$ 112,037	$ 116,015	$ 120,142	$ 124,421	$ 128,873	$ 133,488	$ 138,279	$ 143,254	$ 148,419	$ 153,780
Total Dept 540 100-Water Service Center Management	$ 1,223,240	$ 1,244,890	$ 1,284,270	$ 1,324,940	$ 1,366,923	$ 1,410,270	$ 1,455,037	$ 1,501,257	$ 1,548,985	$ 1,598,273	$ 1,649,172	$ 1,701,738
Total Dept 540 300-WSC - Capital Improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 540 200-Wso-Meter Reading - Water	$ 700,577	$ 533,201	$ 551,620	$ 570,642	$ 590,250	$ 610,778	$ 631,957	$ 653,913	$ 676,677	$ 700,201	$ 724,759	$ 750,145
Total Dept 540 202-Wso-Water Distribution Mains	$ 3,250,567	$ 3,693,236	$ 3,824,447	$ 3,955,207	$ 4,090,691	$ 4,231,081	$ 4,376,566	$ 4,527,344	$ 4,683,618	$ 4,345,604	$ 5,013,523	$ 5,187,308
Total Dept 545 200-Water Plant - Operations	$ 21,345,168	$ 6,123,868	$ 6,608,031	$ 6,200,105	$ 6,492,080	$ 6,670,609	$ 6,866,022	$ 7,068,231	$ 7,277,076	$ 7,106,260	$ 7,720,102	$ 7,063,720
Total Dept 545 201-Water Plant Maintenance	$ 1,893,321	$ 1,629,461	$ 1,684,138	$ 1,740,761	$ 1,799,361	$ 1,861,142	$ 1,922,876	$ 1,987,937	$ 2,055,313	$ 2,126,091	$ 2,197,352	$ 2,272,219
Total Dept 545 202-Water Plant - Dam Operations	$	$	$	$	$	$	$	$	$	$	$	$
Total Dept 545 203-Water Plant - Dam Maintenance	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 545 300-Water Plant - Capital Improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 900 101-Transfers out to fund 101	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000
	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GRAND TOTAL WATER UTILITY	$ 38,865,206	$ 21,400,441	$ 22,140,012	$ 23,316,857	$ 23,999,691	$ 24,706,143	$ 25,494,803	$ 26,199,715	$ 26,960,960	$ 27,774,449	$ 28,807,027	$ 29,469,760

3.2.3 Water Utility CIP and CIP Financing

Tables 12 and 13 on the following two pages indicate the water capital improvements program ("CIP") provided by the City and the CIP financing plan.

As the plan we received from the City was presented in current year dollars, we escalated the project amounts 3% per year from FY 2015 onward. The largest capital improvements in dollar terms are associated with the rehabilitation of the City's water treatment plant (i.e. Water Plant-Phase II projects). These projects are in large part associated with transitioning the City's water treatment plant from back-up status to the primary source of treated water for the City. As discussed above, the improvements to the water treatment plant will allow the City to treat raw water purchased from the KWA for distribution to City customers. In general, the level of spending in the CIP decreases from $10 Million to $7.5 Million as the plant improvements are completed and increases again in the out years due to planned annual recapitalization.

There are three items of note in Table 13. First, all projects are projected to be cash financed at this time. The City may seek to leverage its revenue stream in the future via use of the State of Michigan's ("State") Drinking Water Revolving Revenue Fund ("DWRRF") loan program. This would be particularly beneficial for major water capital improvements, as it would spread the financing responsibility over existing and future ratepayers who receive the benefit of the improvement throughout the asset's useful life. Second, note that the proceeds from the recently completed sale of the Flint pipeline to Genesee County have been included to offset the costs of the treatment plant improvements. Finally, note that the "uses" category includes a line for additional uses, which represent the KWA initiation payments required of the City until it begins paying its share of KWA debt service in FY 2017.

TABLE 12: WATER CAPITAL IMPROVEMENTS PROGRAM

WATER CAPITAL PROJECTS (ESCALATED)														
Project		Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
30000 of Transmission Main Assessment	AWSC Water Fund	$ -	$ 2,160,000	$ 2,332,200	$ 2,641,230	$ 2,920,383	$ 3,014,110	$ 3,101,836	$ 3,197,072	$ 3,290,082	$ 3,382,410	$ 3,184,700	$ 3,389,000
Water Meter Replacement	AWSC Water Fund	$ 500,000	$ 1,287,500	$ 1,536,125	$ 54,536	$ 56,275	$ 57,954	$ 59,103	$ 61,484	$ 63,369	$ 65,295	$ 67,196	$ 69,212
Data Collection and GIS Implementation	AWSC Water Fund	$ -	$ 515,000	$ 530,450	$ 546,364	$ 112,661	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Vehicles, Dump Truck, Flatbed, Skip Van, Tractor	AWSC Water Fund	$	$	$	$	$	$	$	$	$	$	$	$
Valve Exercising	AWSC Water Fund	$ 50,000	$ 51,500	$ 53,054	$ 55,264	$ 57,541	$ 59,356	$ 61,043	$ 62,792	$ 65,000	$ 66,950	$ 69,000	$ 69,864
Water Plant-Phase II, Segment I Rehabilitation	Water Plant	$ 1,200,000	$ 1,030,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Water Plant Phase II, Segment III Line Pavement Disposal	Water Plant	$ 700,000	$	$	$	$	$	$	$	$	$	$	$
Utility 10 Booster Station Upgrades	Water Plant	$ 125,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Cedar St. Electrical Upgrades	Water Plant	$ 600,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Westside Roof Replacement	Water Plant	$	$	$	$	$	$	$	$	$	$	$	$
24" Water Line Loop	Water Plant	$ -	$ 103,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SCADA Upgrades	Water Plant	$ 400,000	$ 412,000	$ 424,360	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Plant 2 to Fort Reservoir Lift Pump Station	Water Plant	$	$ 2,060,000	$	$	$	$	$	$	$	$	$	$
Kelco Xanthan Gum Silo Handling	Water Plant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Plant 2 Lab and Ops Center Roof Replacement	Water Plant	$ -	$ 257,500	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Electrical Upgrades	Water Plant	$	$ 317,698	$ 388,025	$ 400,694	$	$	$	$	$	$	$	$
Raw Water Line to PS1	Water Plant	$ -	$ -	$ 536,540	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Alum Feed System	Water Plant	$ -	$ -	$ 39,253	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Fort Filtration System	Water Plant	$	$	$ 397,220	$	$	$	$	$	$	$	$	$
Main Bus Dam Sheet Piling	Water Plant	$ -	$ -	$ 1,060,900	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Yard Valve Replacement	Water Plant	$ -	$ -	$ -	$ 218,545	$ 225,102	$ 231,855	$ 238,810	$ 245,975	$ 253,354	$ 260,955	$ 268,783	$ 276,847
Phosphoric Acid Feed System	Water Plant	$	$	$	$ 186,764	$	$	$	$	$	$	$	$
Elevated Tank Altitude Valve Replace	Water Plant	$ -	$ -	$ -	$ 54,536	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
New Fencing Around Water Plant	Water Plant	$ -	$ -	$ -	$ 109,073	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Security Cameras	Water Plant	$	$	$	$ 10,221	$	$	$	$	$	$	$	$
Mead Lake Dam Replacement	Water Plant	$ -	$ -	$ -	$ 656,636	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Various Control Station Roof Replacements	Water Plant	$ -	$ -	$ -	$ -	$ 552,764	$ 579,537	$ 597,026	$ 614,937	$ 633,385	$ 652,387	$ 671,958	$ 692,117
Replace Pump 1 @ PS#3 with VFD	Water Plant	$	$	$	$ 46,000	$ 46,371	$ 47,762	$ 49,194	$ 50,671	$ 52,191	$ 53,757	$ 55,369	$ 56,960
Replace Pumps 1&2 @ PS#4 with VFDs	Water Plant	$ -	$ -	$ -	$ -	$ 138,826	$ 143,991	$ 149,108	$ 154,451	$ 159,085	$ 165,118	$ 201,967	$ 207,026
Holloway Drive Gate Rehab	Water Plant	$ -	$ -	$ -	$ -	$ 1,125,609	$ 1,159,274	$ 1,191,052	$ 1,225,874	$ 1,266,710	$ 1,304,773	$ 1,343,916	$ 1,384,234
Ongoing System Re Capitalization	AWSC Water Fund	$	$	$ 530,450	$ 1,092,728	$ 1,126,609	$ 1,159,274	$ 1,191,052	$ 1,224,874	$ 1,260,166	$ 1,297,150	$ 2,015,876	$ 2,076,361
		$ 3,575,000	$ 8,267,698	$ 8,040,107	$ 6,256,756	$ 6,415,400	$ 6,451,965	$ 7,288,119	$ 7,502,231	$ 7,727,297	$ 7,958,116	$ 8,159,850	$ 8,443,827

TABLE 13: WATER CIP FINANCING PLAN

Water Construction Fund/Account		Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Beginning CIP Fund Balance													
Beginning Year Construction Fund Balance		$ -	$ 144,700	$ 293,302	$ 109,165	$ 433,409	$ 18,009	$ 20,074	$ 242,355	$ 240,125	$ 12,827	$ 53,711	$ 355,821
Carry-Over CIP from Previous Year		$ -											
Net Funds Available for Current CIP		$ -	$ 144,700	$ 293,302	$ 109,165	$ 433,409	$ 18,009	$ 20,074	$ 242,355	$ 240,125	$ 12,827	$ 53,711	$ 355,821
Sources of CIP Financing													
Water Revenue Bonds Issued		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Water Commercial Paper Program		$	$	$	$	$	$	$	$	$	$	$	$
Water Rate Revenue Financing (Cash)		$ 7,200,000	$ 9,300,000	$ 6,500,000	$ 3,500,000	$ 6,000,000	$ 6,500,000	$ 7,500,000	$ 7,500,000	$ 7,500,000	$ 8,000,000	$ 8,500,000	$ 6,500,000
SDC Receipts Used for CIP Financing													
Proceeds from Sale of Flint Waterline		$ 3,387,700											
		$ 10,387,700	$ 9,144,700	$ 6,793,302	$ 3,609,165	$ 6,433,409	$ 6,518,009	$ 7,520,074	$ 7,742,355	$ 7,740,125	$ 8,012,827	$ 8,553,711	$ 6,855,821
Uses of CIP Funds													
Total WSC Water Fund		$ 360,000	$ 4,327,300	$ 5,102,929	$ 4,500,381	$ 4,288,189	$ 4,300,907	$ 5,026,960	$ 5,177,769	$ 5,333,102	$ 5,493,095	$ 5,657,888	$ 5,827,625
Total Water Plant		$ 9,175,000	$ 1,240,000	$ 2,037,209	$ 1,335,376	$ 2,127,212	$ 2,101,026	$ 2,256,763	$ 2,321,162	$ 2,301,105	$ 2,166,021	$ 2,610,302	$ 2,616,200
Additional Uses		$ 1,168,000	$ 584,000	$ 584,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Current Year CIP		$ 10,343,000	$ 8,351,300	$ 8,624,137	$ 5,235,756	$ 6,415,400	$ 6,401,933	$ 7,283,723	$ 7,502,231	$ 7,727,297	$ 7,959,116	$ 8,197,390	$ 8,443,827
Bond Issuance Costs		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Refunding of Commercial Paper			$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
EQUALS: Ending CIP Fund Balance		$ 144,700	$293,302	$109,165	$433,409	$18,009	$20,074	$242,355	$240,125	$12,827	$53,711	$355,821	$411,994
Target Balance (% of Next Years CIP)	25.00%	$ 2,272,881	$ 2,160,034	$ 1,668,959	$ 1,303,860	$ 1,522,984	$ 1,520,938	$ 1,676,563	$ 1,851,524	$ 1,939,779	$ 2,049,442	$ 2,110,357	$ -
Variance from Target		($2,128,181)	($1,866,732)	($1,559,794)	($870,451)	($1,504,975)	($1,500,864)	($1,434,208)	($1,611,399)	($1,926,952)	($1,995,731)	($1,754,536)	$411,994

3.2.4 Water Cash Flow Forecast

The final step in the development of the water utility financial plan involves the preparation of a comprehensive cash flow forecast. A summary of the water cash flow forecast is presented in Table 14 on the following page. The key components of the forecast are Financial Plan Inputs, Revenues, Expenditures, and Operating Performance.

- The Financial Plan Inputs component indicates the forecast rate revenue increases. These increases were determined in consultation with City staff and are designed to:
- Ensure recovery of O&M expenditures and existing water utility debt service
- Provide cash financing for the capital projects outlined in the CIP including those necessary to transition from DWSD to the KWA
- Minimize the risk associated with operating a climate dependent enterprise via the build-up of operating reserves equivalent to 90 days of O&M and Debt Service

The Revenues component indicates the revenue at existing rates discussed previously, non-rate revenue and the additional revenue generated by the rate revenue increases shown in the inputs section. Given the forecast of water demand, O&M and capital expenditures and the 90 Day operating reserve benchmark, the "additional revenue" line represents the amount of revenue needed—above existing rate revenues –-to ensure adequate recovery of the water utility's revenue requirement in each year of the forecast.

The Expenditures component indicates the major sources of expenditures for the City's water utility: O&M expenditures, Capital expenditures (Rate Revenue Financing and Debt Service) and Transfers to the Operating Reserve.

The Operating performance component indicates the year end position of the water utility with respect to a few key factors. Included are the estimated operating reserve balance, the target reserve balance (90 Days of O&M and Debt Service), the construction fund ending balance and the water utility's debt service coverage ratio.

TABLE 14: WATER CASH FLOW FORECAST

Water Utility	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
FINANCIAL PLAN INPUTS												
Cumulative % Increase		5.0%	10.3%	15.2%	18.7%	22.2%	25.3%	27.8%	30.3%	33.0%	35.6%	38.3%
Annual % Increase in Rate Revenues	0.0%	5.0%	5.0%	4.5%	3.0%	3.0%	2.5%	2.2%	2.0%	2.0%	2.0%	2.0%
REVENUES												
Grand Total Water Revenue at Existing Rates	$ 42,874,374	$ 32,702,375	$ 32,702,375	$ 32,702,375	$ 32,702,375	$ 32,702,375	$ 32,702,375	$ 32,702,375	$ 32,702,375	$ 32,702,375	$ 32,702,375	$ 32,702,375
Additional Revenue from Rate Increases	$ -	$ 1,638,107	$ 3,368,107	$ 4,983,500	$ 6,145,900	$ 7,282,300	$ 8,283,400	$ 9,104,300	$ 9,941,600	$ 10,735,200	$ 11,556,900	$ 12,405,600
Total Non-Rate Revenues	$ 886,000	$ 813,314	$ 931,644	$ 927,386	$ 926,503	$ 929,131	$ 931,146	$ 930,726	$ 933,187	$ 936,350	$ 936,527	$ 942,481
Add Transfers in from General Fund	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Rate and Non-Rate Revenues	$ 43,660,374	$ 35,313,989	$ 37,002,316	$ 38,673,761	$ 39,806,978	$ 40,914,006	$ 41,917,120	$ 42,737,601	$ 43,637,362	$ 44,494,635	$ 45,395,802	$ 46,260,556
EXPENDITURES												
Total O&M Expenditures	$ 36,855,206	$ 21,483,441	$ 22,140,012	$ 23,310,357	$ 23,989,594	$ 24,705,146	$ 25,434,603	$ 26,168,715	$ 26,906,360	$ 27,774,448	$ 28,607,824	$ 29,469,768
Grand Total Existing and Proposed Debt Service	$ 2,747,946	$ 2,742,821	$ 2,746,423	$ 9,648,446	$ 9,644,008	$ 9,343,196	$ 9,639,827	$ 9,192,721	$ 8,676,674	$ 8,086,623	$ 8,423,745	$ 6,900,000
Water Rate Revenue Financing (Cash)	$ 7,000,000	$ 6,000,000	$ 8,600,000	$ 6,600,000	$ 6,000,000	$ 3,500,000	$ 7,600,000	$ 7,600,000	$ 7,600,000	$ 8,000,000	$ 8,000,000	$ 8,600,000
Water Transfer to Equipment Replacement Fund	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Capital Expenditures	$ 9,747,946	$ 11,742,821	$ 11,246,423	$ 16,148,446	$ 15,644,008	$ 13,143,196	$ 17,139,827	$ 16,792,721	$ 16,176,674	$ 16,086,623	$ 16,423,745	$ 15,400,000
Add Net Surplus/(Deficit)	$ (2,752,778)	$ 2,087,727	$ 3,005,883	$ (791,543)	$ 163,405	$ 125,662	$ (837,311)	$ (83,835)	$ 482,328	$ 634,563	$ (100,668)	$ 1,390,788
GROSS REVENUE REQUIREMENTS												
O&M	$ 30,855,200	$ 21,483,441	$ 22,140,012	$ 23,310,357	$ 23,989,594	$ 24,705,146	$ 25,434,603	$ 26,168,715	$ 26,906,360	$ 27,774,448	$ 28,607,824	$ 29,469,768
Capital	$ 9,747,946	$ 11,742,821	$ 11,246,423	$ 16,148,446	$ 15,644,008	$ 13,143,196	$ 17,139,827	$ 16,792,721	$ 16,176,674	$ 16,086,623	$ 16,423,745	$ 15,400,000
Operating Surplus/Deficit	$ (2,752,778)	$ 2,087,727	$ 3,005,883	$ (791,543)	$ 163,405	$ 125,662	$ (837,311)	$ (83,835)	$ 482,328	$ 634,563	$ (100,668)	$ 1,390,788
Total Gross Revenue Requirements	$ 43,660,374	$ 35,313,989	$ 37,002,316	$ 38,673,761	$ 39,806,978	$ 40,914,006	$ 41,917,120	$ 42,737,601	$ 43,637,362	$ 44,494,635	$ 45,395,802	$ 46,260,556
OPERATING PERFORMANCE												
Ending Operating Reserve Balance	$ 3,375,006	$ 6,762,823	$ 9,128,708	$ 8,337,164	$ 8,500,570	$ 8,626,231	$ 7,789,037	$ 7,705,146	$ 8,187,474	$ 8,822,037	$ 8,006,369	$ 9,397,157
Target Operating Reserve Balance	$ 8,008,288	$ 6,056,668	$ 6,221,600	$ 8,241,326	$ 8,110,879	$ 8,587,086	$ 8,788,638	$ 8,915,360	$ 9,011,268	$ 9,056,018	$ 9,257,013	$ 9,002,912
Variance From Target	$ (6,528,192)	$ (593,742)	$ 2,907,057	$ 95,338	$ 89,751	$ 1,039,205	$ 260,373	$ 99,787	$ 826,215	$ 1,107,019	$ 647,451	$ 2,208,714
Construction Fund Ending Balance	$ 144,700	$ 293,302	$ 169,765	$ 433,909	$ 18,069	$ 26,074	$ 242,356	$ 240,126	$ 72,627	$ 53,777	$ 356,821	$ 417,994
Stand Alone DSCR	2.59	5.04	5.43	1.69	1.64	1.65	1.72	1.81	1.92	2.01	1.99	2.43

3.3 WASTEWATER UTILITY FINANCIAL PLAN

3.3.1 Forecast Wastewater Units of Service and Revenues at Existing Rates

Wastewater Utility Rates

The City recovers the cost of operating the wastewater utility via volumetric rates (i.e. rates based on the amount of wastewater discharged) and fixed monthly service charges (a charge per customer bill). The City's existing wastewater volumetric charge is a uniform rate, or a rate that does not vary (on a per unit basis) as the amount of wastewater discharged varies. The existing wastewater volumetric rate structure is indicated in Table 15 below. Similar to the water utility volumetric rate structure a distinction is made between inside and outside city customers, with the outside city rate set at approximately 110% of the inside city rate.

TABLE 15: EXISTING WASTEWATER VOLUMETRIC RATES

CUSTOMER CLASS		Test-Year FY 2014 Existing Rates
Total Inside City All Classes	($/CCF)	$ 4.80
Total Outside City All Classes	($/CCF)	$ 5.29

The existing wastewater rate structure includes a fixed service charge which varies by customer water meter size. The rates are shown in Table 16 on the following page. Most Flint residential customers have a 5/8" meter and currently pay the $32.00 fixed monthly service charge. Similar to the wastewater volumetric rate, the wastewater fixed charges include an inside outside city differential (120%).

In addition to the retail wastewater rates, the City currently serves a wholesale wastewater customer, Beecher Metropolitan District ("District"). The District currently pays $1.34 per CCF of wastewater discharged, an amount that was negotiated in the 1995 Contract between the City and the District.

TABLE 16: EXISTING WASTEWATER FIXED CHARGES

CUSTOMER CLASS	Test-Year FY 2014 Existing Rates
Inside City Residential Customers	
5/8"	$ 32.00
3/4"	$ 46.92
1"	$ 65.34
1-1/2"	$ 65.34
2"	$ 65.34
Inside City Commercial/Industrial Customers	
5/8"	$ 51.02
3/4"	$ 61.13
1"	$ 84.71
1 1/2"	$ 137.31
2"	$ 196.16
3"	$ 438.06
4"	$ 721.34
6"	$ 1,459.95
8"	$ 2,148.21
10"	$ 2,918.39
12"	$ 3,420.23
16"	$ 4,520.95
20"	$ 5,326.87
Outside City Residential Customers	
5/8"	$ 41.01
3/4"	$ 56.01
1"	$ 76.99
1-1/2"	$ 76.99
2"	$ 76.99
Outside City Commercial/Industrial Customers	
5/8"	$ 50.12
3/4"	$ 73.62
1"	$ 98.05
1-1/2"	$ 164.30
2"	$ 232.43
3"	$ 522.37
4"	$ 886.01
6"	$ 1,770.13
8"	$ 2,646.52
10"	$ 3,522.54
12"	$ 4,132.57
16"	$ 5,457.91
20"	$ 6,502.02

Forecast Wastewater Units of Service

In order to forecast the level of revenue expected under existing wastewater fixed and volumetric rates, the number of wastewater accounts and the level of wastewater usage must be estimated for

the forecast period. The number of historical and forecast wastewater utility accounts is indicated in Tables 17 and 18 on the following two pages.

Note that the raw billing data appear to indicate a 14% increase in inside city accounts and an 18% increase in outside city accounts from FY 2012 to FY 2013. This increase in accounts does not appear to have been sustained into FY 2014. The City has indicated that wastewater billings have decreased approximately 12% from FY 2013. Given this change we have adjusted the forecast level of wastewater accounts to be around 13% less than their FY 2013 level. As no significant growth the City's customer base is expected, no customer growth has been forecast on a going forward basis.

TABLE 17: FORECAST INSIDE CITY WASTEWATER ACCOUNTS

Customer Class	Historical FY 2012	Historical FY 2013	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Inside City Residential														
"0														
"00			-	-	-	-	-	-	-	-	-	-	-	-
5/8"	24,975	25,460	24,750	24,760	24,760	24,760	24,760	24,760	24,750	24,760	24,760	24,760	24,760	24,760
3/4"														
1"	271	297	293	293	293	293	293	293	293	293	293	293	293	293
1-1/2"	25	33	29	29	29	29	29	29	29	29	29	29	29	29
2"	9	11	9	9	9	9	9	9	9	9	9	9	9	9
Unmetered			-	-	-	-	-	-	-	-	-	-	-	-
Total Inside City Residential Remote	25,282	25,841	25,091	25,091	25,091	25,091	25,091	25,091	25,091	25,091	25,091	25,091	25,091	25,091
Inside City Commercial/Industrial														
"0														
"00			-	-	-	-	-	-	-	-	-	-	-	-
5/8"	374	402	350	350	350	350	350	350	350	350	350	350	350	350
3/4"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1"	240	273	239	239	239	239	239	239	239	239	239	239	239	239
1-1/2"	236	263	229	229	229	229	229	229	229	229	229	229	229	229
2"	237	271	236	236	236	236	236	236	236	236	236	236	236	236
3"	70	09	77	77	77	77	77	77	77	77	77	77	77	77
4"	56	61	53	53	53	53	53	53	53	53	53	53	53	53
6"	36	41	36	36	36	36	36	36	36	36	36	36	36	36
8"	3	3	3	3	3	3	3	3	3	3	3	3	3	3
10"			-	-	-	-	-	-	-	-	-	-	-	-
12"			-	-	-	-	-	-	-	-	-	-	-	-
16"			-	-	-	-	-	-	-	-	-	-	-	-
20"			-	-	-	-	-	-	-	-	-	-	-	-
Unmetered														
Total Inside City Commercial/Industrial	1,261	1,403	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221
Total Inside City Accounts	26,543	27,244	26,312	26,312	26,312	26,312	26,312	26,312	26,312	26,312	26,312	26,312	26,312	26,312
		2.6%	-3.4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

TABLE 18: FORECAST OUTSIDE CITY WASTEWATER ACCOUNTS

Customer Class	Historical FY 2012	Historical FY 2013	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Outside City Residential														
"0	0	0	-	-	-	-	-	-	-	-	-	-	-	-
"00	0	0	-	-	-	-	-	-	-	-	-	-	-	-
5/8"	6	7	6	6	6	6	6	6	3	6	6	6	6	6
3/4"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
""	0	0	-	-	-	-	-	-	-	-	-	-	-	-
"-1/2"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
2"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
Unmetered	0	0	-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City Residential Meters	6	7	6	6	6	6	6	6	3	6	6	6	6	6
Outside City Commercial/Industrial														
"0	-		-	-	-	-	-	-	-	-	-	-	-	-
"00	-		-	-	-	-	-	-	-	-	-	-	-	-
5/8"	5	5	4	4	4	4	4	4	4	4	4	4	4	4
3/4"	-		-	-	-	-	-	-	-	-	-	-	-	-
""	2	3	3	3	3	3	3	3	3	3	3	3	3	3
"-1/2"	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2"	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3"	-		-	-	-	-	-	-	-	-	-	-	-	-
4"	-		-	-	-	-	-	-	-	-	-	-	-	-
6"														
8"	-		-	-	-	-	-	-	-	-	-	-	-	-
"0"	-		-	-	-	-	-	-	-	-	-	-	-	-
"2"														
"6"	-		-	-	-	-	-	-	-	-	-	-	-	-
20"	-		-	-	-	-	-	-	-	-	-	-	-	-
Unmetered	-		-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City Commercial/Industrial	11	13	11	11	11	"1	1"	11	11	11	11	11	1"	"1
Total Outside City Accounts	17	21	17	17	17	"7	17	17	17	17	17	17	17	"7
		18%	13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

In addition to forecasting the number of accounts by meter size and customer class, the level of wastewater usage must also be estimated for the forecast period. The historical and forecast level of wastewater usage by customer class can be on Table 19 on the following page.

Note that—consistent with the significant increase in inside city water accounts in FY 2013—inside city wastewater usage has increased significantly in FY 2013 (18%). Given the uncertainty surrounding this most recent upswing in billed wastewater usage, and the subsequent decrease in billed wastewater revenues, retail usage has been forecast at 15% below FY 2013 levels for FY 2014, FY 2015 and the remainder of the ten year forecast period.

TABLE 19: FORECAST WASTEWATER USAGE

Customer Class	Historical FY 20[illegible]	Historical FY 2013	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
INSIDE CITY														
Inside City Metered Wastewater Rates														
Total Inside City Residential	1,319,011	1,354,801	1,370,000	1,510,000	1,570,000	1,570,000	1,570,000	1,570,000	1,510,000	1,570,000	1,570,000	1,570,000	1,570,000	1,570,000
Total Inside City Commercial/Industrial	1,396,944	1,343,364	1,398,721	1,398,721	1,398,721	1,398,721	1,398,721	1,398,721	1,398,721	1,398,721	1,398,721	1,398,721	1,398,721	1,398,721
Total Inside City All Classes	2,715,955	2,911,165	2,975,387	2,975,387	2,975,387	2,975,387	2,975,387	2,975,387	2,975,387	2,975,387	2,975,387	2,975,387	2,975,387	2,975,387
		27%	-13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
OUTSIDE CITY														
Outside City Metered Wastewater Rates														
Total Outside City Residential	219	342	216	216	216	216	216	216	216	216	216	216	216	216
Total Outside City Commercial/Industrial	8,505	3,249	7,012	7,012	7,012	7,012	7,012	7,012	7,012	7,012	7,012	7,012	7,012	7,012
Total Outside City All Classes	8,724	3,591	7,217	7,217	7,217	7,217	7,217	7,217	7,217	7,217	7,217	7,217	7,217	7,217
		-59%	-139%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TOTAL RETAIL														
Total Residential	1,319,030	1,355,143	1,370,072	1,510,072	1,570,072	1,570,072	1,570,072	1,570,072	1,510,072	1,570,072	1,570,072	1,570,072	1,570,072	1,570,072
Total Commercial/Industrial	1,404,449	1,353,803	1,405,733	1,405,733	1,405,733	1,405,733	1,405,733	1,405,733	1,405,733	1,405,733	1,405,733	1,405,733	1,405,733	1,405,733
	2,724,479	2,708,945	2,982,674	2,982,674	2,982,674	2,982,674	2,982,674	2,982,674	2,982,674	2,982,674	2,982,674	2,982,674	2,982,674	2,982,674
		27%	-13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
WHOLESALE														
Beecher Metro Wholesale Rate														
Beecher Metro Wholesale Rate	501,363	513,673	513,673	513,673	513,673	513,673	513,673	513,673	513,673	513,673	513,673	513,673	513,673	513,673
GRAND TOTAL WASTEWATER USAGE	3,226,842	4,222,618	3,496,347	3,496,347	3,496,347	3,496,347	3,496,347	3,496,347	3,496,347	3,496,347	3,496,347	3,496,347	3,496,347	3,496,347
		23%	-17%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Forecast Wastewater Revenue at Existing Rates

Wastewater utility revenue at existing rates is the sum of wastewater volumetric and fixed charge revenue. Fixed charge revenue at existing rates was determined by multiplying the number of forecast accounts at each meter size, by the existing rate for that size and again by 12 for each of the monthly bills. Volumetric revenue was determined by multiplying the level of consumption by customer class, by the existing volumetric rates. Table 20 on the following page indicates the level of wastewater revenue at existing rates.

Total wastewater revenue at existing rates in FY 2014 is forecast to be approximately $27 Million. Of this, approximately 54% is derived from the volumetric rates and 46% is associated with the fixed monthly service charges. On a going forward basis, the level of revenues at existing wastewater rates would remain at $27 Million assuming consumption remains flat and the City makes no adjustments to wastewater rates.

TABLE 20: FORECAST WASTEWATER REVENUE AT FY 2014 RATES

SUMMARY OF FORECAST WASTEWATER RATE REVENUE AT EXISTING RATES												
Customer Class	Budget Year FY 2014	Test Year FY 2016	Forecast FY 2015	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
GRAND TOTAL SYSTEM USAGE REVENUE	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754
GRAND TOTAL SYSTEM FIXED CHARGE REVENUE	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621
GRAND TOTAL WASTEWATER REVENUE AT EXISTING RA	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374

SUMMARY OF PREFERRED WASTEWATER REVENUE												
Customer Class	Budget Year FY 2014	Test Year FY 2016	Forecast FY 2015	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
TOTAL RETAIL USAGE REVENUE												
Total Inside City Residential	$ 7,309,083	$ 7,309,083	$ 7,309,083	$ 7,309,083	$ 7,309,083	$ 7,309,083	$ 7,309,083	$ 7,309,083	$ 7,309,083	$ 7,309,083	$ 7,309,083	$ 7,309,083
Total Inside City Commercial/Industrial	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917
	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000
WHOLESALE USAGE REVENUE												
Beecher Metro Wholesale Rate	$ 685,753	$ 685,753	$ 685,753	$ 685,753	$ 685,753	$ 685,753	$ 685,753	$ 685,753	$ 685,753	$ 685,753	$ 685,753	$ 685,753
GRAND TOTAL SYSTEM USAGE REVENUE	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754

SUMMARY OF FIXED CHARGE WASTEWATER REVENUE												
Customer Class	Budget Year FY 2014	Test Year FY 2016	Forecast FY 2015	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
TOTAL RETAIL FIXED CHARGE REVENUE												
Total Inside City Residential	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131
Total Inside City Commercial/Industrial	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974
	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105
WHOLESALE FIXED CHARGE REVENUE												
Beecher Metro Fixed Charge	$ 27,516	$ 27,516	$ 27,516	$ 27,516	$ 27,516	$ 27,516	$ 27,516	$ 27,516	$ 27,516	$ 27,516	$ 27,516	$ 27,516
GRAND TOTAL SYSTEM FIXED CHARGE REVENUE	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621

3.3.2 Forecast Wastewater Utility Operation and Maintenance Expenditures

Wastewater O&M Inflation Rates

The budgets provided by the City are the basis for the forecast of wastewater utility O&M expenditures. To forecast the level of wastewater utility O&M expenditures that the City is projected to incur over the forecast period we applied escalation rates shown in Table 21 below.

TABLE 21: WASTEWATER O&M ESCALATION RATES

Category	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Wages & Salaries	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Benefits	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Pension	0%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Medical	0%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%
Materials/Supplies	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
General	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Vehicle	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Pilot	0%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Depric/Deplic Equip Replace	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Cost Alloc Plan-Expense	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Utilities	0%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Maintenance	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Capital Outlay	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Water Supply Costs	0%	0%	0%	0%	5%	5%	5%	5%	5%	5%	5%	5%
KWA Bond Payment	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
KWA Initiation Fee	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Purchase of KWA raw water	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transfer to 101	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transfer to 493	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Forecast Wastewater Operation and Maintenance Expenditures

Tables 22 and 23 on the following page indicate level of wastewater O&M expenditures over the forecast period, by the escalation rate categories and by department.

Unlike the water utility there is no single large cost driver. The most notable expenditures are associated with personnel: Wages and Salaries, Benefits, Pension, and the City's share of retiree healthcare benefits ("Cost Alloc. Plan-Expense"). In general, wastewater O&M expenditures are projected to decrease from 24 Million in FY 2014 to 23 Million in FY 2015 with inflationary increases thereafter.

TABLE 22: WASTEWATER O&M BY CATEGORY

Category	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Wages & Salaries	$ 4,289,608	$ 4,321,275	$ 4,450,913	$ 4,584,440	$ 4,721,973	$ 4,863,633	$ 5,009,542	$ 5,159,829	$ 5,314,623	$ 5,474,061	$ 5,638,283	$ 5,807,432
Benefits	$ 1,684,693	$ 1,696,181	$ 1,643,036	$ 1,692,327	$ 1,743,097	$ 1,795,390	$ 1,849,252	$ 1,904,729	$ 1,961,871	$ 2,020,727	$ 2,081,349	$ 2,143,790
Pension	$ 2,017,927	$ 2,031,610	$ 2,130,189	$ 2,000,039	$ 2,421,005	$ 2,242,370	$ 2,009,491	$ 2,002,903	$ 2,343,117	$ 3,050,270	$ 3,244,700	$ 3,407,035
Medical	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Materials/Supplies	$ 1,491,057	$ 1,535,787	$ 1,581,855	$ 1,629,311	$ 1,678,190	$ 1,728,536	$ 1,780,392	$ 1,833,803	$ 1,888,818	$ 1,945,482	$ 2,003,847	$ 2,063,962
General	$ 1,901,280	$ 1,732,239	$ 1,034,000	$ 1,000,920	$ 1,914,718	$ 1,972,161	$ 2,031,326	$ 2,092,265	$ 2,155,033	$ 2,219,684	$ 2,286,275	$ 2,354,863
Vehicle	$ 760,802	$ 783,627	$ 807,136	$ 831,349	$ 856,291	$ 881,979	$ 908,438	$ 935,691	$ 963,762	$ 992,675	$ 1,022,455	$ 1,053,129
Plant	$ 1,218,300	$ 1,217,666	$ 1,257,519	$ 1,297,870	$ 1,318,727	$ 1,745,170	$ 1,379,011	$ 1,393,144	$ 1,477,479	$ 1,495,361	$ 1,495,101	$ 1,514,803
Debt/Capital Equip Replace	$	$	$	$	$	$	$	$	$	$	$	$
COSTA Del Field Expense	$ 5,836,744	$ 5,109,906	$ 5,245,614	$ 5,385,972	$ 5,611,151	$ 5,241,286	$ 5,016,521	$ 6,197,023	$ 6,362,333	$ 6,514,416	$ 6,771,651	$ 6,914,844
Utilities	$ 2,283,000	$ 2,218,350	$ 1,950,941	$ 2,039,378	$ 2,121,954	$ 2,206,192	$ 2,294,023	$ 2,385,784	$ 2,481,215	$ 2,580,464	$ 2,683,683	$ 2,791,000
Maintenance	$ 401,600	$ 413,648	$ 426,057	$ 438,839	$ 452,004	$ 465,564	$ 479,531	$ 493,917	$ 508,735	$ 523,997	$ 539,717	$ 555,909
Capital Outlay	$ 61,000	$ 59,131	$ 50,635	$ 52,123	$ 53,687	$ 55,297	$ 56,956	$ 58,665	$ 60,425	$ 62,238	$ 64,105	$ 66,028
Water Supply Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MWA Bond Payment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
MWA Interest Fee	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Purchase of MWA raw water	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Interest	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Principal	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Transfer to 101	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000
Transfer to 193	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	$ 24,323,527	$ 23,353,392	$ 23,394,671	$ 24,091,569	$ 24,812,101	$ 25,651,113	$ 26,221,461	$ 27,124,115	$ 27,947,961	$ 28,800,000	$ 29,681,261	$ 30,592,710

TABLE 23: WASTEWATER O&M BY DEPARTMENT

O&M DETAIL FOR FISCAL YEAR ENDED JUNE 30												
DEPARTMENT	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Total Dept 540.101-Utilities - Sewer Administration	$ 7,447,438	$ 7,551,942	$ 7,871,573	$ 8,196,518	$ 8,335,945	$ 8,563,751	$ 8,811,737	$ 9,057,791	$ 9,316,476	$ 9,577,281	$ 9,855,817	$ 10,137,362
Total Dept 540.102-Water Service Center Management	$ 2,713,446	$ 839,175	$ 865,367	$ 891,748	$ 922,849	$ 952,605	$ 987,141	$ 1,014,800	$ 1,047,513	$ 1,081,318	$ 1,116,264	$ 1,152,399
Total Dept 540.200-WISC - Capital Improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 540.201-Wastewater Reading - Sewer	$ 700,518	$ 738,119	$ 762,919	$ 788,273	$ 811,510	$ 841,652	$ 869,768	$ 898,858	$ 928,970	$ 960,143	$ 992,417	$ 1,025,832
Total Dept 540.202-Wastewater Maint/Construction	$ 2,703,153	$ 2,797,606	$ 2,895,717	$ 2,997,782	$ 3,103,837	$ 3,213,232	$ 3,326,726	$ 3,443,478	$ 3,564,654	$ 3,692,460	$ 3,824,049	$ 3,960,627
Total Dept 540.300-Wastewater Operations	$ 5,176,142	$ 5,215,160	$ 5,361,112	$ 5,551,629	$ 5,755,178	$ 5,960,128	$ 6,172,461	$ 6,392,768	$ 6,621,256	$ 6,858,239	$ 7,104,048	$ 7,359,024
Total Dept 540.201-Wastewater Pump Station	$ 909,913	$ 735,282	$ 761,801	$ 789,206	$ 817,531	$ 846,825	$ 878,115	$ 909,960	$ 942,990	$ 977,257	$ 1,012,807	$ 1,049,690
Total Dept 540.202-Wastewater Maintenance Expense	$ 2,817,309	$ 2,712,411	$ 3,003,177	$ 3,109,711	$ 3,213,960	$ 3,328,211	$ 3,451,236	$ 3,576,160	$ 3,706,132	$ 3,788,389	$ 3,916,829	$ 4,047,816
Total Dept 540.300-WW Operations - Capital Improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 540.800-Non_dep_Exp-Sewer Portion	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 999.101-Transfers out to Fund 101	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000
	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GRAND TOTAL WASTEWATER UTILITY	$ 24,323,527	$ 23,353,392	$ 23,394,671	$ 24,091,569	$ 24,812,101	$ 25,651,113	$ 26,221,461	$ 27,124,115	$ 27,947,961	$ 28,800,000	$ 29,681,261	$ 30,592,710

3.3.3 Wastewater Utility CIP and CIP Financing

Tables 24 and 25 on the following two pages indicate the wastewater capital improvements program ("CIP") provided by the City and the CIP financing plan. As the plan we received from the City was presented in current year dollars, we escalated the project amounts 3% per year from FY 2015 onward. The largest capital projects relate to rehabilitation of the City's wastewater treatment plant and pumping stations. In general, the level of spending in the CIP peaks at from $12 Million in FY 2018 and returns to an average level of around $8 Million going forward.

Table 25 summarizes the wastewater utility CIP financing plan. While the CIP financing plan used for this report only incorporates cash financing, the City may seek to leverage its revenue stream in the future via the issuance of revenue bonds or other alternative financing instruments. This would be particularly beneficial for major wastewater capital improvements, as it would spread the financing responsibility over existing and future ratepayers who receive the benefit of the improvement throughout the asset's useful life.

TABLE 21: WASTEWATER CAPITAL IMPROVEMENTS PROGRAM

WASTEWATER CAPITAL PROJECTS (ESCALATED)

Project		Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Pipe Lining	WPC Sewer Fund	$ 1,431,000	$ 1,699,700	$ 1,779,976	$ 1,979,000	$ 1,887,780	$ 1,947,977	$ 2,011,156	$ 2,076,740	$ 2,760,171	$ 2,147,976	$ 2,217,467	$ 2,287,985
Roof Control	WPC Sewer Fund	$ 360,000	$ 360,000	$ 371,216	$ 382,464	$ 393,952	$ 405,770	$ 417,943	$ 430,481	$ 443,396	$ 456,671	$ 470,371	$ 484,482
Meter Replacement	WPC Sewer Fund	$ 250,000	$ 257,500	$ 265,425	$ 273,408	$ 281,610	$ 290,058	$ 298,760	$ 307,723	$ 316,955	$ 326,463	$ 336,257	$ 346,345
VEHICLES: Pump Truck, 2 JBOM Lease Payments, 2 Hybrid Trucks, 1 Tractor	WPC Sewer Fund	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Biosolids Load Out Facility	Water Pollution Control	$ -	$ 2,060,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Biosolids Load Out Facility Engineering	Water Pollution Control	$ 116,350	$ 52,600	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Engineering for RSTO Grant	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
EPS Bar Screen Replacement	Water Pollution Control	$ 1,254,247	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Final Tank Retrofit Four or Eight Tanks	Water Pollution Control	$ 657,200	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Influent Bar Screen Replacement	Water Pollution Control	$ 440,545	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
RAS Flowmeter	Water Pollution Control	$ 32,197	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Ball E Actuator	Water Pollution Control	$ 19,973	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Sigma Sweeper	Water Pollution Control	$ 11,971	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
OPC Jacks	Water Pollution Control	$ 20,975	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PLC/SCADA Automation	Water Pollution Control	$ 185,100	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PLC/SCADA Analyzer	Water Pollution Control	$ 12,264	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Lighting Upgrades	Water Pollution Control	$ 159,063	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Disinfection Upgrades	Water Pollution Control	$ 11,575	$ 154,500	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Replacement of Battery #1 (1)	Water Pollution Control	$ -	$ -	$ 1,061,600	$ -	$ 4,457,967	$ 429,677	$ 119,475	$ 123,659	$ 128,677	$ 133,477	$ 134,367	$ 138,473
Third Ave Pumping Station Electrical Switchgear	Water Pollution Control			$ 1,060,600									
Final Tank Coatings	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Minor Concrete Repairs	Water Pollution Control	$ -	$ 113,397	$ 265,225	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Aeration Blower Replacement	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Aeration Blower Controls	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Minor Valve Repair	Water Pollution Control	$ -	$ -	$ 212,180	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Replacement of Battery #1 Station 6	Water Pollution Control			$ 265,225									
SWRC Upgrades	Water Pollution Control	$ -	$ 412,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Primary Tank Rebuilt	Water Pollution Control	$ -	$ 77,250	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Concrete Coatings	Water Pollution Control	$ -	$ -	$ -	$ 998,814	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Interval Bar Screen Repairs	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Third Ave Pipe Repair	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Plant Roofing	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Replacement Pump for Third Ave Pumping Station	Water Pollution Control	$ -	$ -	$ -	$ -	$ 844,754	$ 869,097	$ 897,169	$ -	$ -	$ -	$ -	$ -
Replacement Pumps for EPS	Water Pollution Control	$ -	$ -	$ -	$ 365,636	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Replacement Pumps for MWPS	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Battery 3 Air Piping	Water Pollution Control	$ -	$ -	$ -	$ 491,171	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Air Diffuser Upgrades Battery 6	Water Pollution Control				$ 100,273								
MCC/VFD Switchgear	Water Pollution Control	$ -	$ -	$ -	$ 2,189,454	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Battery 1 Isolation Gates	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
EPS Switchgear	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Addition to Vehicle Storage Building	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Influent Flow Equalization	Water Pollution Control	$ -	$ -	$ -	$ 81,966	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Final Effluent Meter Replacement	Water Pollution Control				$ 100,273								
Lighting Panel Upgrades	Water Pollution Control	$ -	$ -	$ -	$ 87,418	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Blower Header Insulation	Water Pollution Control	$ -	$ -	$ -	$ 437,089	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Battery 3 Influent Meter Replacement	Water Pollution Control	$ -	$ -	$ -	$ 109,273	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Sludge Cake Storage	Water Pollution Control	$ -	$ -	$ -	$ 777,818	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Heavy Mobile Equipment	Water Pollution Control	$ -	$ -	$ -	$ 163,909	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Air Diffuser Upgrades Battery 7	Water Pollution Control		$ 125,700										
Aeration Improvements	Water Pollution Control	$ -	$ 24,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Final Tank Retrofit-Last Four Tanks	Water Pollution Control	$ -	$ 655,250	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Vehicles	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Dredging System Recapitalization	WPC Sewer Fund	$ -	$ -	$ 2,121,800	$ 2,186,454	$ 1,726,626	$ 4,457,786	$ 4,716,979	$ 4,949,464	$ 4,767,081	$ 5,719,797	$ 4,716,666	$ 5,436,995
		$ 6,206,674	$ 7,220,300	$ 9,272,266	$ 9,793,138	$ 11,761,456	$ 5,172,852	$ 1,910,142	$ 7,453,724	$ 7,760,526	$ 8,021,266	$ 5,266,266	$ 2,613,022

TABLE 25: WASTEWATER CIP FINANCING PLAN

Water Construction Fund/Account		Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Beginning CIP Fund Balance													
Beginning Year Construction Fund Balance		$ -	$ 294,324	$ 74,024	$ 301,758	$ 18,573	$ 764,047	$ 91,135	$ 160,717	$ 86,993	$ 226,357	$ 272,002	$ 8,916
Carry Over CIP from Previous Year		$											
Net Funds Available for Current CIP		$ -	$ 294,324	$ 74,024	$ 301,758	$ 18,573	$ 764,047	$ 91,135	$ 160,717	$ 86,993	$ 226,357	$ 272,002	$ 8,916
Sources of CIP Financing													
Wastewater Revenue Bonds Issued		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Wastewater Commercial Paper Program		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Wastewater Rate Revenue Financing (Cash)		$ 5,500,000	$ 7,000,000	$ 9,500,000	$ 9,500,000	$ 12,500,000	$ 7,500,000	$ 8,000,000	$ 7,500,000	$ 8,000,000	$ 8,000,000	$ 8,000,000	$ 8,500,000
SDC Receipts Used for CIP Financing													
Other Sources of CIP Financing													
		$ 5,500,000	$ 7,294,324	$ 9,574,024	$ 9,801,758	$ 12,518,573	$ 8,264,047	$ 8,091,135	$ 7,660,717	$ 8,086,993	$ 8,226,357	$ 8,272,002	$ 8,508,916
Uses of CIP Funds													
Total WSC Sewer Fund		$ 2,420,000	$ 3,307,200	$ 5,559,116	$ 4,425,544	$ 5,800,319	$ 7,013,800	$ 7,224,018	$ 7,440,737	$ 7,663,959	$ 7,893,878	$ 8,130,694	$ 8,374,615
Total Water Pollution Control		$ 3,085,676	$ 3,883,100	$ 3,713,150	$ 5,357,647	$ 6,971,706	$ 1,159,274	$ 716,481	$ 122,987	$ 126,677	$ 130,477	$ 134,392	$ 138,423
Additional Uses													
Total Current Year CIP		$ 5,205,676	$ 7,223,300	$ 9,272,266	$ 9,783,192	$ 11,794,026	$ 8,172,882	$ 7,940,498	$ 7,563,724	$ 7,790,635	$ 8,024,355	$ 8,265,086	$ 8,513,038
Bond Issuance Costs		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Refunding of Commercial Paper			$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
ROUND: Ending CIP Fund Balance		$294,324	$74,024	$301,758	$18,573	$764,047	$91,135	$150,717	$98,993	$226,357	$272,002	$8,916	($8,122)
Target Balance (% of Next Years CIP)	25.00%	$ 1,805,075	$ 2,313,367	$ 2,445,798	$ 2,298,681	$ 2,048,221	$ 1,995,112	$ 1,890,021	$ 1,947,869	$ 2,006,089	$ 2,066,271	$ 2,128,260	$ -
Variance from Target		($1,510,751)	($2,244,342)	($2,144,038)	($2,280,108)	($1,284,173)	($1,853,977)	($1,740,214)	($1,850,885)	($1,779,732)	($1,794,259)	($2,121,343)	($8,122)

3.3.4 Wastewater Cash Flow Forecast

The final step in the development of the wastewater utility financial plan involves the preparation of a comprehensive cash flow forecast. A summary of the wastewater cash flow forecast is presented in Table 26 on the following page. The key components of the forecast are Financial Plan Inputs, Revenues, Expenditures, and Operating Performance.

The Financial Plan Inputs component indicates the forecast rate revenue increases. These increases were determined in consultation with City staff and are designed to:

- Ensure recovery of wastewater utility O&M expenditures
- Provide cash financing for the wastewater capital projects outlined in the CIP
- Minimize risk via the build-up of operating reserves equivalent to 90 days of O&M and Debt Service

The Revenues component indicates the revenue at existing rates discussed previously, non-rate revenue and the additional revenue generated by the rate revenue increases shown in the inputs section. Given the forecast of wastewater demand, O&M and capital expenditures and the 90 Day operating benchmark, the "additional revenue" line represents the amount of revenue needed—above existing rate revenues—to ensure adequate recovery of the wastewater utility's revenue requirement going forward.

The Expenditures component indicates the major sources of expenditures for the City's wastewater utility: O&M expenditures, Capital expenditures (Rate Revenue Financing and Debt Service) and Transfers to the Operating Reserve.

The Operating performance section indicates the year end position of the wastewater utility with respect to a few key factors. Included are the estimated operating reserve balance, the target reserve balance (90 Days of O&M and Debt Service), and the construction fund ending balance.

TABLE 26: WASTEWATER CASH FLOW FORECAST

Wastewater Utility	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
FINANCIAL PLAN INPUTS												
Cumulative % Increase		7.5%	15.0%	23.1%	28.6%	31.2%	33.8%	36.5%	39.2%	42.0%	44.8%	47.7%
Annual % Increase in Rate Revenues	0.0%	7.5%	7.0%	7.1%	4.5%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
REVENUES												
Grand Total Wastewater Revenue at Existing Rates	$21,777,374	$21,777,374	$21,777,374	$21,777,374	$21,777,374	$21,777,374	$21,777,374	$21,777,374	$21,777,374	$21,777,374	$21,777,374	$21,777,374
Additional Revenue from Rate Increases	$ -	$ 2,093,300	$ 4,173,600	$ 6,410,100	$ 7,298,500	$ 8,063,000	$ 8,301,800	$ 10,136,200	$ 10,903,600	$ 11,663,000	$ 12,456,800	$ 13,280,600
Total Non-Rate Revenues	$ 396,872	$ 423,553	$ 420,948	$ 426,058	$ 422,741	$ 436,354	$ 501,068	$ 520,110	$ 536,407	$ 552,390	$ 557,990	$ 560,618
Add Transfers In From General Fund	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Rate and Non-Rate Revenues	*$ 22,173,246*	*$ 30,294,227*	*$ 32,371,923*	*$ 34,613,532*	*$ 35,148,615*	*$ 36,876,728*	*$ 37,670,242*	*$ 38,433,685*	*$ 39,217,231*	*$ 39,993,665*	*$ 40,831,164*	*$ 41,618,593*
EXPENDITURES												
Total O&M Expenditures	*$ 23,323,627*	*$ 23,053,332*	*$ 23,394,671*	*$ 24,091,669*	*$ 24,312,101*	*$ 25,557,113*	*$ 26,327,481*	*$ 27,124,116*	*$ 27,947,961*	*$ 28,800,000*	*$ 29,681,251*	*$ 30,592,770*
Grand Total Existing and Proposed Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Wastewater Rate Revenue Financing (Cash)	$ 3,600,000	$ 7,000,000	$ 9,600,000	$ 9,600,000	$ 12,300,000	$ 8,000,000	$ 8,000,000	$ 7,200,000	$ 8,000,000	$ 8,000,000	$ 8,000,000	$ 9,600,000
Wastewater Transfer to Equipment Replacement Fund	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Capital Expenditures	*$ 3,600,000*	*$ 7,000,000*	*$ 9,600,000*	*$ 9,600,000*	*$ 12,300,000*	*$ 8,000,000*	*$ 8,000,000*	*$ 7,200,000*	*$ 8,000,000*	*$ 8,000,000*	*$ 8,000,000*	*$ 9,600,000*
Add Net Surplus/Deficit	*$ (4,450,381)*	*$ 230,895*	*$ (622,748)*	*$ 1,021,863*	*$ (963,486)*	*$ 3,321,615*	*$ 3,342,761*	*$ 3,209,570*	*$ 3,269,270*	*$ 3,193,665*	*$ 3,115,913*	*$ 2,025,823*
GROSS REVENUE REQUIREMENTS												
O&M	$ 24,323,627	$ 23,053,332	$ 23,394,671	$ 24,091,669	$ 24,312,101	$ 25,557,113	$ 26,327,481	$ 27,124,116	$ 27,947,961	$ 28,800,000	$ 29,681,251	$ 30,592,770
Capital	$ 3,600,000	$ 7,000,000	$ 9,600,000	$ 9,600,000	$ 12,300,000	$ 8,000,000	$ 8,000,000	$ 7,200,000	$ 8,000,000	$ 8,000,000	$ 8,000,000	$ 9,600,000
Operating Surplus/Deficit	$ (4,450,381)	$ 230,895	$ (622,748)	$ 1,021,863	$ (963,486)	$ 3,321,615	$ 3,342,761	$ 3,209,570	$ 3,269,270	$ 3,193,665	$ 3,115,913	$ 2,025,823
Total Gross Revenue Requirements	*$ 23,173,246*	*$ 30,284,227*	*$ 32,371,923*	*$ 34,613,532*	*$ 35,148,615*	*$ 36,879,728*	*$ 37,670,242*	*$ 38,533,685*	*$ 39,217,231*	*$ 39,993,665*	*$ 40,831,164*	*$ 41,618,593*
OPERATING PERFORMANCE												
Ending Operating Reserve Balance	$ 5,307,352	$ 5,538,097	$ 5,015,249	$ 6,037,212	$ 5,373,726	$ 17,696,341	$ 21,039,102	$ 24,247,672	$ 28,106,991	$ 31,303,655	$ 34,423,569	$ 35,949,292
Target Operating Reserve Balance	$ 6,080,907	$ 5,763,348	$ 5,848,668	$ 6,022,892	$ 6,203,025	$ 6,389,278	$ 6,581,870	$ 6,781,029	$ 6,986,990	$ 7,200,000	$ 7,420,313	$ 7,648,192
Variance From Target	$ (773,555)	$ (225,251)	$ (833,419)	$ 14,320	$ (829,300)	$ 11,307,063	$ 14,457,232	$ 17,466,643	$ 21,120,001	$ 24,103,655	$ 27,003,256	$ 28,301,100
Construction Fund Ending Balance	*$ 793,321*	*$ 78,071*	*$ 301,758*	*$ 18,473*	*$ 968,127*	*$ 91,165*	*$ 150,717*	*$ 86,993*	*$ 296,857*	*$ 179,809*	*$ 6,917*	*$ (6,777)*
Stand Alone DSCR	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*

4. WATER UTILITY COST OF SERVICE STUDY

Following the determination of the water utility financial plan, the next steps are to summarize the water utilities total rate revenue requirement, determine the proportion of that requirement which is attributable to each customer class, and calculate the volumetric and fixed rates.

4.1 WATER REVENUE REQUIREMENT FROM RATES

Table 27 below indicates the level of water utility expenditures which must be recovered from rates in the FY 2015 test year and each year of the forecast period. It is comprised of the forecast water utility O&M and capital expenditures, and is offset by non-rate revenues the water utility is anticipated to receive over the forecast period. The total test year revenue requirement is approximately $34 Million.

TABLE 27: WATER REVENUE REQUIREMENTS

OPERATION AND MAINTENANCE EXPENDITURES

Revenue/Expense Item	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Total Dept 536.000-Utilities - Water Administration	$ 7,492,304	$ 7,718,511	$ 7,945,462	$ 8,179,167	$ 8,419,955	$ 8,667,940	$ 8,923,374	$ 9,186,488	$ 9,457,512	$ 9,736,845	$ 10,024,258	$ 10,320,048
Total Dept 536.203-Utilities - Water Cross Connection P	$ 104,600	$ 108,201	$ 112,207	$ 116,045	$ 120,142	$ 124,426	$ 128,972	$ 133,686	$ 138,270	$ 143,264	$ 148,110	$ 153,782
Total Dept 540.000-Water Service Center Management	$ 1,223,240	$ 1,244,890	$ 1,284,276	$ 1,324,940	$ 1,366,925	$ 1,410,276	$ 1,455,037	$ 1,501,257	$ 1,548,985	$ 1,598,273	$ 1,649,172	$ 1,701,738
Total Dept 610.300-WSC - Capital Improvements	$	$	$	$	$	$	$	$	$	$	$	$
Total Dept 540.203-Wtr-Meter Reading - Water	$ 730,577	$ 633,281	$ 651,328	$ 670,642	$ 690,350	$ 710,779	$ 731,957	$ 753,913	$ 776,677	$ 700,281	$ 724,759	$ 750,145
Total Dept 610.202-Wtr-Water Distribution Mains	$ 3,260,607	$ 3,609,236	$ 3,821,147	$ 3,655,307	$ 4,000,601	$ 4,237,091	$ 4,376,666	$ 4,527,317	$ 4,383,619	$ 4,976,801	$ 5,013,533	$ 5,197,609
Total Dept 545.200-Water Plant - Operations	$ 21,345,155	$ 5,420,868	$ 5,608,394	$ 6,300,105	$ 6,482,080	$ 6,670,603	$ 6,865,522	$ 7,068,291	$ 7,277,975	$ 7,495,250	$ 7,720,402	$ 7,953,729
Total Dept 545.201-Water Plant Maintenance	$ 1,288,821	$ 1,029,401	$ 1,064,138	$ 1,740,721	$ 1,798,301	$ 1,858,048	$ 1,922,673	$ 1,987,997	$ 2,055,315	$ 2,125,091	$ 2,197,302	$ 2,272,219
Total Dept 545.202-Water Plant - Dam Operations	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 545.203-Water Plant - Dam Maintenance	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 545.300-Water Plant - Capital Improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 900.701-Transfers out to Fund 101	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000
Total Operation and Maintenance Expenditures	$ 38,360,206	$ 21,483,441	$ 22,140,952	$ 23,216,827	$ 23,938,304	$ 24,709,148	$ 25,434,803	$ 26,188,715	$ 26,968,380	$ 27,774,448	$ 28,607,324	$ 29,469,768

CAPITAL EXPENDITURES

Revenue/Expense Item	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Grand Total Existing and Proposed Debt Service	$ 2,747,946	$ 2,742,821	$ 2,748,423	$ 9,648,448	$ 6,644,008	$ 9,643,196	$ 9,636,827	$ 9,192,721	$ 8,378,674	$ 8,056,823	$ 8,423,746	$ 6,900,000
Water Rate Revenue Financing (Cash)	$ 7,300,000	$ 8,000,000	$ 8,600,000	$ 6,600,000	$ 6,000,000	$ 6,600,000	$ 7,600,000	$ 7,600,000	$ 7,500,000	$ 8,000,000	$ 8,600,000	$ 8,600,000
Add Net Operating Surplus(Deficit)	$ (2,762,775)	$ 2,097,727	$ 3,665,283	$ (701,673)	$ 163,485	$ 126,662	$ (607,311)	$ (83,936)	$ 102,325	$ 621,663	$ (166,369)	$ 1,300,788
Add Water Transfers to Equipment Replacement Fu	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Capital Expenditures	$ 3,395,168	$ 13,830,548	$ 14,912,306	$ 15,356,903	$ 15,807,474	$ 16,258,858	$ 16,542,517	$ 16,808,886	$ 16,369,002	$ 15,720,187	$ 16,757,377	$ 16,790,788
GROSS REVENUE REQUIREMENT FROM RATES	$ 41,360,374	$ 35,313,989	$ 37,052,978	$ 38,573,731	$ 39,806,979	$ 40,974,006	$ 41,977,320	$ 42,797,601	$ 43,337,382	$ 44,194,635	$ 46,365,302	$ 46,260,556

NON-RATE REVENUES

Revenue/Expense Item	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Total Non-Rate Revenues	$ 986,700	$ 913,314	$ 931,544	$ 927,868	$ 928,978	$ 929,731	$ 931,146	$ 930,774	$ 933,187	$ 936,360	$ 936,577	$ 949,491
NET REVENUE REQUIREMENT FROM RATES	$ 40,374,374	$ 34,400,675	$ 36,121,435	$ 37,645,863	$ 38,878,475	$ 40,044,275	$ 41,046,175	$ 41,866,827	$ 42,404,195	$ 43,258,275	$ 45,428,725	$ 45,311,065

4.2 WATER REVENUE REQUIREMENTS BY CUSTOMER CLASS

Following the development of the total test year revenue requirement, the proportion of the total revenue requirement allocable to each customer class must be determined. This allocation represents the level of revenues that must be recovered from each customer class, given the operational demands that class places on the water utility system. This allocation is performed via the multi-step process described below.

4.2.1 O&M Allocation to Function Categories

The first step in determining revenue requirements by customer class is to allocate the test year O&M revenue requirement to functional categories. These categories are functions that the water utility must perform in order to deliver water service to City customers. For the water utility they are: Administrative and General, Customer Service, Source of Supply, Pumping, Treatment, Storage, Transmission Mains, Distribution Mains, Meters and Services and Hydrants.
The O&M allocations, by department, are shown in Table 28 on the following page.

TABLE 28: WATER O&M ALLOCATION TO FUNCTIONAL CATEGORIES

DEPARTMENT	Direct Allocation	Administrative and General	Customer Service	Source of Supply	Pumping	Treatment	Storage	Transmission Mains	Distribution Mains	Meters and Services	Hydrants
Total Dept 536.100-Utilities - Water Administration	$ 7,718,511	$ 7,718,511	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 536.206-Utilities - Water Cross Connection P	$ 108,204	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 108,204	$ -	$ -
Total Dept 540.100-Water Service Center Management	$ 1,244,890	$ -	$ 1,244,890	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 540.300-WSC - Capital Improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 540.200-Wsc-Meter Reading - Water	$ 530,201	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 530,201	$ -
Total Dept 540.202-Wsc-Water Distribution Mains	$ 3,698,235	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,698,235	$ -	$ -
Total Dept 545.200 Water Plant - Operations	$ 6,120,868	$	$	$	$	$ 6,120,868	$	$	$	$	$
Total Dept 545.201-Water Plant Maintenance	$ 1,529,461	$ -	$ -	$ -	$ -	$ 1,529,461	$ -	$ -	$ -	$ -	$ -
Total Dept 545.202-Water Plant - Cam Operations	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 545.203-Water Plant - Cam Maintenance	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 545.300-Water Plant - Capital Improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 966.101-Transfers out to fund 101	$ 1,100,000	$ 1,100,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GRAND TOTAL WATER UTILITY	$ 21,182,111	$ 8,818,511	$ 1,244,890	$	$	$ 7,650,329	$	$	$ 3,806,440	$ 530,201	$

4.2.2 O&M Allocation to Cost Components

Once O&M costs have been allocated to functional categories, the total O&M revenue requirement allocated to each functional category must be further allocated based on the operational need that function is designed to fulfill. For this allocation RFC has utilized the "Base Extra Capacity" method described in the American Water Works Association ("AWWA") publication, "Manual of Water Supply Practices M1, Principles of Rates, Fees and Charges (M1)."

The cost components utilized in this study are: base demand, or water demand under average conditions; maximum day and hour demand, or water demand under peak load conditions; customer service, for functions related to customer billing and service; and fire protection, for functions pertaining to the use of public hydrants and private fire lines. Table 29 below indicates the classification of water O&M expenditures to the cost components described above.

TABLE 29: WATER O&M ALLOCATION TO COST COMPONENTS

		$ Allocation							
		Base	Max Day Extra	Max Hour Extra	Customer Units Equivalent Meters		Fire Protection Private Fire		Public Fire
FUNCTIONAL CLASSIFICATION	Total $ Allocation	Demand	Capacity	Capacity	& Services	Bills	Equivalent Connections	Bills	Hydrants
Administrative and General	$ 8,843,511	$ 2,791,751	$ 4,451,013	$ 360,453	$ ',245,291	$ -	$ -	$ -	$ -
Customer Service	$ 1,244,890	$ -	$ -	$ -	$ ',244,890	$ -	$ -	$ -	$ -
Source of Supply	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Pumping	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Treatment	$ 7,050,319	$ 2,717,572	$ 4,332,747	$ -	$ -	$ -	$ -	$ -	$ -
Storage	$	$	$	$	$	$	$	$	$
Transmission Mains	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Distribution Mains	$ 3,803,440	$ 1,268,813	$ 2,022,926	$ 514,701	$ -	$ -	$ -	$ -	$ -
Meters and Services	$ 533,281	$ -	$ -	$ -	$ 533,281	$ -	$ -	$ -	$ -
Hydrants	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	$ 21,483,441	$ 6,778,137	$ 10,806,686	$ 875,157	$ 3,023,462	$ -	$ -	$ -	$ -

4.2.3 Capital Cost Allocation to Functional Components

Similar to the allocation of the O&M revenue requirement described in the previous section, the capital revenue requirement must be allocated to functional categories. Table 30 on the following page indicates the functional allocation of capital costs.

The basis for the allocation of capital costs was the existing level of water utility investment in fixed assets. The existing net book value of each major asset class was allocated to the functional categories. The total capital revenue requirement, approximately 14 Million in the test year, was then allocated according to the proportion of existing investment in each functional category. As indicated, a large proportion of investment in fixed assets pertains to upgrades to the City's water treatment plant. As such, the majority of the capital revenue requirement (68%) has been allocated to the treatment function.

TABLE 30: WATER CAPITAL ALLOCATION TO FUNCTIONAL CATEGORIES

Allocation of Capital Costs to Functional Categories	Total	Administrative and General	Customer Service	Source of Supply	Pumping	Treatment	Storage	Transmission Mains	Distribution Mains	Meters and Services	Hydrants
Breakdown of Fixed Assets by Functional Category	100%	0.21%	0.00%	9.53%	0.48%	68.39%	0.00%	0.00%	18.25%	2.09%	0.04%
Total Capital Expenditures	$ 13,000,540	$ 28,011	$ -	$ 1,017,005	$ 60,010	$ 8,450,100	$ -	$ -	$ 2,000,007	$ 280,070	$ 5,013

$ Allocation of Water Fixed Assets to Functional Categories FIXED ASSET CATEGORY	Net Book Value	Administrative and General	Customer Service	Source of Supply	Pumping	Treatment	Storage	Transmission Mains	Distribution Mains	Meters and Services	Hydrants
01Land	$ 724,317	$ 73,998	$ -	$ 903,947	$ 5,389	$ 34,933	$ -	$ -	$ 5,050	$ -	$ -
02Construction-in-Progress	$ 755,801	$ 1,613	$ -	$ 71,992	$ 3,807	$ 516,702	$ -	$ -	$ 145,540	$ 15,020	$ 307
20Land Improvement	$ 198,868	$ 405	$ -	$ 18,905	$ 948	$ 135,875	$ -	$ -	$ 38,258	$ 4,161	$ 81
21Building Improvements	$ 3,404,802	$ 7,413	$ -	$ 330,084	$ 10,037	$ 2,309,448	$ -	$ -	$ 007,339	$ 72,570	$ 1,400
23Dist Plant - Hydrants	$ 16,468	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 16,468
24Dist Plant - Water mains	$ 7,170,830	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 7,170,830	$ -	$ -
25Dist Plant - Meters	$ 940,348	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 940,348	$ -
30Dist - Struc & Improv	$ 029,030	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 029,030	$ -	$ -
27Lab Equip	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
28Office Equip & Furn.	$ 12,823	$ 12,823	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
29power operated equip.	$ 6,000	$ 13	$ -	$ 572	$ 29	$ 4,103	$ -	$ -	$ 1,156	$ 126	$ 2
31Pump Plant (electric Pump Equip)	$ 121,681	$ -	$ -	$ -	$ 121,681	$ -	$ -	$ -	$ -	$ -	$ -
32Pump Plant - Struc & Imp	$ 68,574	$ -	$ -	$ -	$ 68,574	$ -	$ -	$ -	$ -	$ -	$ -
33Source of Supplies - Main (Pipe Line)	$ 2,476,415	$ -	$ -	$ 2,476,415	$ -	$ -	$ -	$ -	$ -	$ -	$ -
34Source of Water Supplies - Structure	$ 793,912	$ -	$ -	$ 793,912	$ -	$ -	$ -	$ -	$ -	$ -	$ -
35Tools, Cars, & Garage Eq	$ 3,054	$ 7	$ -	$ 256	$ 15	$ 2,107	$ -	$ -	$ 643	$ 65	$ 1
36Vehicle	$ 318,753	$ 747	$ -	$ 33,226	$ 1,885	$ 239,100	$ -	$ -	$ 67,172	$ 7,305	$ 142
37 Treatment - Struc & Impr	$ 384,545	$ -	$ -	$ -	$ -	$ 384,545	$ -	$ -	$ -	$ -	$ -
38Treatment Plant Equip	$ 116,902	$ -	$ -	$ -	$ -	$ 116,902	$ -	$ -	$ -	$ -	$ -
DWRLF Phase 1/Seg 1 Total	$ 3,976,530	$ -	$ -	$ -	$ -	$ 3,976,530	$ -	$ -	$ -	$ -	$ -
DWRLF Phase 1/Seg 2 Total	$ 1,366,011	$ -	$ -	$ -	$ -	$ 1,366,011	$ -	$ -	$ -	$ -	$ -
DWRLF Phase 1/Seg 3 Total	$ 4,388,566	$ -	$ -	$ -	$ -	$ 4,388,566	$ -	$ -	$ -	$ -	$ -
DWRLF Phase 1/Seg 4 Total	$ 7,670,166	$ -	$ -	$ -	$ -	$ 7,670,166	$ -	$ -	$ -	$ -	$ -
DWRLF Phase 1/Seg 5 Total	$ 6,885,886	$ -	$ -	$ -	$ -	$ 6,885,886	$ -	$ -	$ -	$ -	$ -
Total Water Fixed assets	$ 46,328,750	$ 97,049	$ -	$ 4,378,386	$ 215,348	$ 30,998,634	$ -	$ -	$ 8,730,557	$ 949,401	$ 18,397
%Breakdown	100.00%	0.21%	0.00%	9.53%	0.48%	68.39%	0.00%	0.00%	18.25%	2.09%	0.04%

4.2.4 Capital Cost Allocation to Cost Components

As with the allocation of the O&M revenue requirement described above, the functionally allocated capital revenue requirement must also be allocated according to the operational need for which each function is designed to fulfill.

The "Base Extra Capacity" method described in AWWA M1 is also used to allocate the capital revenue requirement to cost components. Table 31 below summarizes this allocation.

TABLE 31: WATER CAPITAL ALLOCATION TO COST COMPONENTS

		$ Allocation								
			Max Day	Max Hour	Customer Units		Fire Protection		
FUNCTIONAL CLASSIFICATION	Total $ Allocation	Base Demand	Extra Capacity	Extra Capacity	Equivalent Meters & Services	Bills	Private Fire Equivalent Connections	Bills	Public Fire Hydrants
Administrative and General	29,611	-	-	-	29,611	-	-	-	-
Customer Service	-	-	-	-	-	-	-	-	-
Source of Supply	1,317,605	1,317,605	-	-	-	-	-	-	-
Pumping	36,010	25,444	40,566	-	-	-	-	-	-
Treatment	9,458,193	3,645,697	5,812,497	-	-	-	-	-	-
Storage	-	-	-	-	-	-	-	-	-
Transmission Mains	-	-	-	-	-	-	-	-	-
Distribution Mains	2,633,837	887,946	1,415,691	360,200	-	-	-	-	-
Meters and Services	239,678	-	-	-	283,678	-	-	-	-
Hydrants	5,613	5,613	-	-	-	-	-	-	-
Total Capital Expenditures	13,830,548	5,882,305	7,268,754	360,200	314,289	-	-	-	-

4.2.5 Non-Rate Revenue Allocation to Cost Components

Non-rate revenue must be excluded from the O&M and Capital revenue requirements as these amounts are an offset to the revenue requirement which will be recovered from rates. Consequently, non-rate revenues are allocated to the cost components so that they can be removed from the total revenue requirement. In this case, non-rate revenues were allocated proportionally according to the total O&M revenue requirement allocation and can be seen in Table 32 on the below.

TABLE 32: WATER NON-RATE REVENUE ALLOCATION TO COST COMPONENTS

			$ Allocation							
				Max Day	Max Hour	Customer Units		Fire Protection		
ACCOUNT CODE	DESCRIPTION	Total $ Allocation	Base Demand	Extra Capacity	Extra Capacity	Equivalent Meters & Services	Bills	Private Fire Equivalent Connections	Bills	Public Fire Hydrants
591-536.100-615.000	Fees - Utilities -Bike Regn	-	-	-	-	-	-	-	-	-
591-536.100-642.000	Charges For Sale	-	-	-	-	-	-	-	-	-
591-536.100-648.000	Scrap Sales	5 000	1,578	2,515	204	704	-	-	-	-
591-536.100-657.000	Fines - Turn- On Fees - Utilities	120 000	37,861	60,363	4,388	16,888	-	-	-	-
591-536.100-657.100	Forfeited Discount - Utilities	350 000	110,427	176,058	14,258	49,257	-	-	-	-
591-536.100-665.000	Interest Earned On Bank Chg &	27 314	8,618	13,740	1,113	3,844	-	-	-	-
591-536.100-670.000	Rental - City Property	-	-	-	-	-	-	-	-	-
591-536.100-673.400	Sale Of Fixed Assets	25 000	7,888	12,576	1,018	3,518	-	-	-	-
591-536.100-686.000	Discounts Earned	-	-	-	-	-	-	-	-	-
591-536.100-699.999	Prior Year Revenue	-	-	-	-	-	-	-	-	-
591-540.100-643.000	Meter Water Sales	-	-	-	-	-	-	-	-	-
591-540.100-648.000	Scrap Sales	-	-	-	-	-	-	-	-	-
591-540.100-670.000	Rental - City Property	-	-	-	-	-	-	-	-	-
591-540.100-677.000	Reimbursements	-	-	-	-	-	-	-	-	-
591-540.206-601.000	Mrchnd & Job Charge Service	150 000	47,326	75,454	6,110	21,110	-	-	-	-
591-540.204-642.000	Charges For Sale	-	-	-	-	-	-	-	-	-
591-540.206-601.900	Mrchnd & Job Charge Service	236 000	74,459	118,714	9,614	33,213	-	-	-	-
591-545.200-615.000	Fees - Water testing - Utilities	-	-	-	-	-	-	-	-	-
591-545.200-642.000	Charges For Sale									
591-545.200-648.000	Scrap Sales	-	-	-	-	-	-	-	-	-
591-545.200-671.300	Other Income	-	-	-	-	-	-	-	-	-
591-545.200-677.000	Reimbursements	-	-	-	-	-	-	-	-	-
591-545.203-686.000	Discounts Earned	-	-	-	-	-	-	-	-	-
Add Transfers in from General Fund		-	-	-	-	-	-	-	-	-
Total Non-Rate Revenues		913 314	288,155	460,410	37,205	128,535	-	-	-	-

4.2.6 *Determination of Maximum Day and Hour Peaking Factors*

Once each component of the revenue requirements has been determined, maximum day and hour peaking factors for each customer class are estimated. These are the basis upon which the maximum day and hour cost allocations, determined in the previous step, are allocated to each customer class. In general, the guidelines for determining maximum day and hour peaking factors outlined in AWWA M1 were the basis for this component of the analysis.

The maximum day demand for each customer class is estimated as the average usage per day in the highest usage month, divided by the annual average usage per day, weighted by the ratio of maximum day demand to the average demand in the maximum month for the entire water system. In other words:

- System Max Day to Average Day in Max Month=(System Max Day Demand)/(System Max Month/30)
- Class Maximum Day=[(Class Max Month/30)/(Class Annual Total)/365]*[System Max Day to Average Day in Max Month]

The weighting occurs because the exact maximum day, by customer class is not known, but is assumed to have the same relationship to the average day in the maximum month as the entire system. As the exact customer class maximum hour is not known, a similar weighting process occurs to determine the customer class maximum hour demands:

- System Max Hour to Average Day in Max Month=(System Max Hour)/(System Max Month/30)
- Class Maximum Hour=Class Max Day*System Max Hour to Average Day in Max Month

The determination of customer class peaking factors is shown in Table 33 on the below.

TABLE 33: WATER PEAKING FACTOR CALCULATIONS

System Production Metrics											
	Annual Total	System Annual Average Day	System Max Month	Average Day in Max Month	System Max Day	System Max to Average Day	System Max Day to Average Day in MM	System Max Hour Peak (Estimated)	System Max Hour	System Max Hour to Average Day	System Max Hour to Average Day in MM
Total System	3,405,052	9,550	426,416	14,214	24,777	2.59	1.74	3.00	20,651	3.00	2.02

Determination of Customer Class Peaking Factors									
Customer Class	Annual Total	Max Month	Max Day In Max Month	Annual Average Day	Max to Average Day Ratio	System Max to Average Day	Max Day Peaking Factor	System Max Hour to Average Day	Max Hour Peaking Factor
INSIDE CITY RETAIL									
Total Inside City Residential	1,855,952	220,002	7,333	5,088	1.44	1.75	2.52	1.95	4.92
Total Inside City Commercial/Industrial	1,573,978	199,367	6,646	4,326	1.54	1.75	2.69	1.95	5.24
Total Inside City Lawn	13,369	5,105	170	37	4.64	1.75	8.12	1.95	15.83
Total Inside City	3,443,319	424,474	14,149	9,450	1.50	1.75	2.62	1.95	5.11
OUTSIDE CITY RETAIL									
Total Outside City Residential	3,630	1,216	41	24	1.71	1.75	3.00	1.95	5.85
Total Outside City Commercial/Industrial	27,943	4,257	142	77	1.85	1.75	3.24	1.95	6.33
Total Outside City Lawn	-	-	-	-		1.75		1.95	
Total Outside City	33,573	4,864	162	100	1.62	1.75	2.83	1.95	5.52
Total System	3,485,892	426,416	14,214	9,550	1.49				

4.2.7 *Calculation of Units of Service*

The next step in the cost allocation process is to summarize the units of service, which are the basis for the allocation of the total revenue requirement to each of the customer classes. The units are Base units, Maximum Day Extra Capacity units, Maximum Hour Extra Capacity units, Customer units and Direct Fire Protection Units and are indicated in Table 34 on the following page.

Base units are the annual usage for each customer class. Maximum Day Extra Capacity units represent the water demand in excess of that which is used on an average day for that customer class, and is a function of the average daily usage and the customer class peaking factor determined in the prior step.

As an example, the residential class is forecast to use 1.7 Million CCF on an annual basis in the test year. This equates to 4,700 CCF/day on an average day. Based on the maximum day peaking factor determined in the previous step, Residential customers, on their highest usage day of the year, typically use 1.7 times their average day usage, or around 8,200 CCF. The difference between the maximum day and average day, around 3,500 CCF, represents the Maximum Day Extra Capacity units.

A similar calculation is used to determine the Maximum Hour Extra Capacity Units, which are simply the usage forecast in the highest hour of the test year, less the maximum day demand.

Customer Units are equivalent meters, and customer monthly bills. The number of bills for each customer class was ascertained via an examination of the billing data from the City's Customer Information System ("CIS"). The equivalent meters are the number of customer meters at each meter size weighted by the potential water demand each meter can place on the water system.

Private fire connections and hydrants were not included as the City does not currently bill separately for public or private fire protection.

TABLE 34: WATER UNITS OF SERVICE

Water Units of Service	Base Units		Maximum Day Extra Capacity Units			Maximum Hour Extra Capacity Units			Customer Units		Direct Fire Protection	
CUSTOMER CLASS	Forecast Annual Demand CCF	Forecast Average Day Demand	Capacity Factor	Total Capacity	Extra Capacity	Capacity Factor	Total Capacity	Extra Capacity	Equivalent Meters & Services	Bills	Private Fire Equivalent Connections	Public Fire Hydrants
INSIDE CITY RETAIL CONSUMPTION REVENUE												
Total Inside City Residential	1,745,595	4,782	2.51	12,063	7,281	4.62	22,524	11,460	25,627	301,317		
Total Inside City Commercial/Industrial	1,484,239	4,066	2.36	9,932	5,866	5.24	21,317	10,365	8,509	15,210		
Total Inside City Leun	12,586	34	8.13	280	245	15.83	549	266	128	565		
Total Inside City	3,242,360	8,883		22,276	11,392	26	45,297	22,112	34,680	317,092		
OUTSIDE CITY RETAIL CONSUMPTION REVENUE												
Total Outside City Residential	8,112	22	3.30	67	44	9.85	33	63	129	1,503		
Total Outside City Commercial/Industrial	26,266	72	3.74	233	161	6.23	455	222	156	447		
Total Outside City Leun		0	0.00			0.00						
Total Outside City	34,379	94		300	206	12	585	285	285	1,950		
Grand Total System Units of Service	3,276,790	8,977		22,575	14,590	38	45,872	22,397	34,964	319,042		

4.2.8 Unit Cost of Service

Following the allocation of the water revenue requirements to each of the cost components and the calculation of the units of service, a unit cost of service for each cost component can be determined. These unit costs are basis by which the revenue requirements by customer class are determined. The unit cost of service is the revenue requirement, as allocated to the cost components, divided by the units of service attributable to that component and is shown in Table 35 below.

TABLE 35: WATER UNIT COST OF SERVICE

Water Units of Service

CUSTOMER CLASS	Base Demand Units	Max Day Extra Capacity	Max Hour Extra Capacity	Customer Units: Equivalent Meters & Services	Customer Units: Bills	Direct Fire Protection: Private Fire Equivalent Connections	Direct Fire Protection: Public Fire Hydrants
Total Inside City	3,242,360	14,302	22,112	34,689	317,092		
Total Outside City	34,379	296	285	295	1,920		
Grand Total System Units of Service	3,276,738	14,598	22,397	34,984	319,002		

Water Cash Basis Revenue Requirements

REVENUE REQUIREMENT	Total	Base Demand Units	Max Day Extra Capacity	Max Hour Extra Capacity	Customer Units: Equivalent Meters & Services	Customer Units: Bills	Direct Fire Protection: Private Fire Equivalent Connections	Direct Fire Protection: Public Fire Hydrants
Total Operation and Mainterance Expenditures	$ 21,483,441	$ 5,778,137	$ 10,806,686	$ 875,157	$ 3,023,462	$ -	$ -	$ -	$ -
Unit Cost		$ 2.07	$ 740.28	$ 36.08	$ 80.47	$ -	$ -	$ -	$ -
Total Capital Expenditures	$ 13,830,548	$ 5,882,305	$ 7,268,764	$ 380,200	$ 319,289	$ -	$ -	$ -	$ -
Unit Cost		$ 1.80	$ 497.93	$ 16.08	$ 9.13	$ -	$ -	$ -	$ -
Total Non-Rate Revenues	$ (913,314)	$ (288,156)	$ (469,479)	$ (37,205)	$ (128,535)	$ -	$ -	$ -	$ -
Unit Cost		$ (0.09)	$ (31.47)	$ (1.66)	$ (3.68)	$ -	$ -	$ -	$ -
Total System Revenue Requirements	$ 34,400,675	$ 12,372,280	$ 17,010,021	$ 1,198,152	$ 3,214,210	$ -	$ -	$ -	$ -
Total System Unit COS	$ -	$ 3.78	$ 1,206.74	$ 52.50	$ 91.93	$ -	$ -	$ -	$ -

For example, total base demand units are 3.2 Million CCF. This means that the O&M, Capital and Non-Rate Revenue Requirements cost $2.07, $1.80 and $(.09) per unit of base water demand. The total unit cost to serve base water demand is $3.78/CCF. The calculation is repeated for each cost component to determine the overall unit cost to serve base demand, extra capacity demand (max day and hour) and provide customer service.

4.2.9 Revenue Requirements by Customer Class

The customer class revenue requirements are the basis for establishing alternative rates by customer class. The City's existing rate structure does not include distinct rates by customer class. At this time the City will not be implementing any rate structure changes. However, the distinct class revenue requirements are shown in Table 36 below and are the basis for the alternative rates by customer class presented as Appendix A.

TABLE 36: WATER REVENUE REQUIREMENTS BY CUSTOMER CLASS

Water Units of Service					Customer Units		Direct Fire Protection		
CUSTOMER CLASS		Base Demand Units	Max Day Extra Capacity	Max Hour Extra Capacity	Equivalent Meters & Services	Bills	Private Fire Equivalent Fire Connections	Private Fire Bills	Public Fire Hydrants
Total System Revenue Requirements	$34,400,675	$12,372,286	$17,616,021	$1,193,152	$ 3,214,216	$ -	$ -	$ -	$ -
Total System Unit COS		$ 3.78	$,206.74	$ 53.50	$ 91.93	$ -	$ -	$ -	$ -
Units of Service									
Total Inside City Residential		1,745,525	7,201	11,460	25,621	301,317	-	-	-
Total Inside City Commercial/Industrial		1,484,239	6,866	10,385	8,909	15,210	-	-	-
Total Inside City Lawn		12,566	245	266	138	555	-	-	-
Total Inside City		3,242,360	14,392	22,112	34,669	317,082	-	-	-
Total Outside City Residential		8,112	44	63	129	1,503	-	-	-
Total Outside City Commercial/Industrial		26,266	161	222	166	417	-	-	-
Total Outside City Lawn		-	-	-	-	-	-	-	-
Total Outside City		34,379	206	285	295	1,920	-	-	-
Total System Units of Service		3,276,738	14,598	22,397	34,964	319,002	-	-	-
Allocated Cost of Service									
Total Inside City Residential COS	$10,345,672	$ 3,590,770	$ 0,706,440	$ 610,009	$ 2,355,365	$ -	$ -	$ -	$ -
Total Inside City Commercial/Industrial COS	$15,263,704	$ 5,604,180	$ 8,284,911	$ 555,585	$ 819,028	$ -	$ -	$ -	$ -
Total Inside City Lawn COS	$ 370,646	$ 47,521	$ 296,185	$ 14,226	$ 12,714	$ -	$ -	$ -	$ -
Total Inside City COS	$33,980,022	$12,242,479	$17,367,536	$1,182,900	$ 3187,107	$ -	$ -	$ -	$ -
Total Outside City Residential COS	$ 99,483	$ 30,630	$ 53,642	$ 3,389	$ 11,823	$ -	$ -	$ -	$ -
Total Outside City Commercial/Industrial COS	$ 321,169	$ 99,177	$ 194,843	$ 11,863	$ 15,286	$ -	$ -	$ -	$ -
Total Outside City Lawn COS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Outside City COS	$ 420,653	$ 129,807	$ 248,485	$ 15,252	$ 27,109	$ -	$ -	$ -	$ -
Total System Cost of Service	$34,400,675	$12,372,286	$17,616,021	$1,193,152	$ 3214,216	$ -	$ -	$ -	$ -
Check on Total System COS (Should be $0	$								

As Table 36 indicates, the revenue requirement for each customer class is the total unit cost of service determined previously, multiplied by the units of service for each customer class. The total allocation is based on each customer class's contribution to the water utility's overall operating and capital costs, as represented by their units of service.

4.3 WATER RATE DESIGN

As mentioned previously, the water rates have been calculated under the City's existing rate structure. The rate calculation under existing rates will be presented here, with the alternative rates by customer class presented as Appendix A for informational purposes.

4.3.1 Volumetric Rate Calculations

As mentioned above, the City did not indicate a desire to significantly modify its water rate structure at this time. Therefore RFC maintained various components of the existing water volumetric rates including:

- The existing inside/outside city differential (i.e. outside=150% of inside)
- The existing steepness or difference between the highest, middle and lowest block rates
- The existing structure which charges the same volumetric rates for all customer classes
- The existing shift of some volumetric costs to the fixed service charge (i.e. a readiness to serve adjustment)

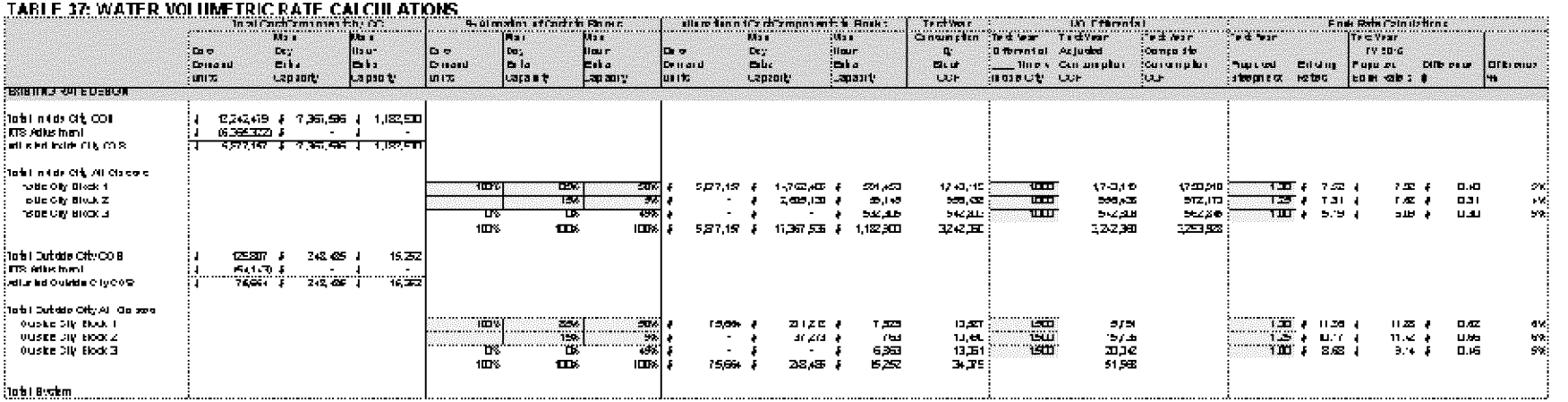
The calculation of the water volumetric rates involves the following steps

- Determine total composite volumetric revenue requirement:

    - Adjust the test-year volumetric revenue requirement (i.e. Base, Max Day and Max Hour costs) by the readiness to serve amount
    - Allocate the adjusted volumetric revenue requirement to the three consumption blocks
    - Add the block allocation for inside and outside city customers to determine a composite volumetric revenue requirement for all customer classes
- Determine the composite water volumetric units:
    - Multiply the consumption, by block, for inside and outside city customers, by their respective differentials (Outside=150% of Inside).
    - Add those units together.
- Calculate Inside and Outside City Volumetric Rates:
    - Determine a composite rate, for each block, for all customer classes:
        - Multiply the composite consumption for each block by the proposed steepness for that block and sum the result
        - For the lowest block divide the total composite revenue requirement by the total determined above.
        - For Blocks 2 and 3 multiply the Block 1 rate by the proposed steepness for Blocks 2 and 3.
    - Multiply the composite rates, by block determined above, by the outside and inside city differentials to determine the block rates for inside and outside city customers.

A summary of the water volumetric rate calculations are indicated in Table 37 below.

TABLE 37: WATER VOLUMETRIC RATE CALCULATIONS



	Total Cost Components for COS			Estimation of Customer Demands			Allocation to Cost Components for Rates			Test Year	Unit Differential			Final Rate Calculations				
	Base Demand Units	Max Day Base Capacity	Max Hour Base Capacity	Base Demand Units	Max Day Base Capacity	Max Hour Base Capacity	Base Demand Units	Max Day Base Capacity	Max Hour Base Capacity	Consumption Qty (Mcf)	Test Year Differential Inside City	Test Year Adjusted Consumption	Test Year Composite Consumption	Test Year Proposed Steepness	Test Year Existing Ratio	Test Year FY 2016 Proposed Commodity	Test Year FY 2016 Difference $	Difference %
EXISTING RATE DESIGN																		
Total Inside City COS	$ 12,242,419	$ 7,361,586	$ 1,182,500															
RTS Adjustment	$ (6,365,322)	$ -	$ -															
Adjusted Inside City COS	$ 5,877,197	$ 7,361,586	$ 1,182,500															
Total Inside City All Classes																		
Inside City Block 1				100%	85%	28%	$ 5,877,197	$ 1,702,465	$ 331,450	1,243,112	1000	1,243,112	1,243,112	1.30	$ 7.52	$ 7.52	$ 0.00	0%
Inside City Block 2					15%	5%	$ -	$ 3,659,120	$ 85,149	969,032	1000	969,032	972,172	1.25	$ 7.31	$ 7.40	$ 0.31	4%
Inside City Block 3				0%	0%	68%	$ -	$ -	$ 542,818	542,818	1000	542,818	542,818	1.00	$ 5.79	$ 5.79	$ 0.00	0%
				100%	100%	100%	$ 5,877,197	$ 11,367,536	$ 1,182,500	3,242,962		3,242,962	3,253,922					
Total Outside City COS	$ 125,837	$ 248,485	$ 16,252															
RTS Adjustment	$ (54,173)	$ -	$ -															
Adjusted Outside City COS	$ 74,664	$ 248,485	$ 16,252															
Total Outside City All Classes																		
Outside City Block 1				100%	55%	26%	$ 75,664	$ 20,125	$ 7,523	13,527	1500	9,751		1.30	$ 11.26	$ 11.26	$ 0.02	0%
Outside City Block 2					15%	5%	$ -	$ 37,273	$ 753	13,481	1500	15,116		1.25	$ 10.77	$ 11.42	$ 0.65	6%
Outside City Block 3				0%	0%	69%	$ -	$ -	$ 8,353	13,351	1500	20,242		1.00	$ 8.62	$ 9.14	$ 0.15	2%
				100%	100%	100%	$ 75,664	$ 28,485	$ 16,252	34,375		51,998						
Total System																		

4.3.2 Fixed Charge Calculations

As noted above, the City did not express a desire to change rate structures at this time. Consequently, the following aspects of the existing rate structure have been maintained including:

- The existing inside/outside city differential (i.e. outside=150% of inside)
- The existing shift of some volumetric costs to the fixed service charge (i.e. a readiness to serve adjustment)
- The flow equivalencies for the various meter sizes

The calculation of the water fixed charges involves the following steps

- Determine total composite fixed charge revenue requirement by summing the fixed charge revenue requirements (i.e. those allocated to the customer service related cost components) and the readiness to serve revenue requirement
- Determine the composite fixed charge water units:
    - Multiply the number of inside and outside city equivalent accounts by the existing I/O differential (Outside=150% of Inside)
    - Add those units together to determine the composite number of equivalent customer accounts
- Calculate Inside and Outside City Volumetric Rates:
    - Determine an annual composite rate for all customer classes by dividing the total composite revenue requirement determined above, by the total composite water equivalent accounts
    - Determine a monthly rate for the 5/8" equivalent account by dividing the annual rate by 12.
    - Multiply the composite fixed charges by the Inside and Outside City differentials (100% for Inside City and 150% for Outside City) to determine the monthly fixed charge per 5/8" equivalent account for inside and outside city customer classes.
    - Multiply the monthly fixed charge for a 5/8" equivalent account by the meter equivalencies for each meter size to determine the monthly fixed charge for the remaining meter sizes.

The fixed charge calculations are shown in Table 38 on the following page.

TABLE 38: WATER FIXED CHARGE CALCULATIONS

CHARGE	Total Revenue Requirements By Charge	Composite Revenue Requirements	Equivalent Accounts	Test Year Differential ____ Times Inside City	Test Year Adjusted Equivalent Accounts	Test Year Composite Equivalent Accounts	Monthly Fixed Charge Per 5/8" Equivalent
Total Inside City Residential	$ 7,059,524	$ 7,094,953	25,621	1.00	25,621	25,814	$ 22.90
Total Inside City Commercia /Industrial	$ 2,492,905	$ 2,538,722	9,048	1.00	9,048	9,297	$ 22.76
	$ 9,552,429	$ 9,633,681	34,669		34,669	35,111	
Total Outside City Residential	$ 35,435		129	1.50	193		$ 34.36
Total Outside City Commercial/Industrial	$ 45,817		166	1.50	249		$ 34.13
	81,252		295		442		

CUSTOMER CLASS	Inside City Meter Equivalency	Outside Meter Equivalency	Proposed Fixed Charge INSIDE CITY	Existing Fixed Charge INSIDE CITY	Difference	Proposed Fixed Charge OUTSIDE CITY	Existing Fixed Charge OUTSIDE CITY	Difference
Residential Customers								
5/8"	1.00	0.99	$ 22.90	$ 21.78	5%	$ 34.17	$ 32.48	5%
3/4"	1.92	1.92	$ 44.03	$ 41.86	5%	$ 65.95	$ 62.71	5%
1"	2.54	2.53	$ 58.15	$ 55.28	5%	$ 87.08	$ 82.79	5%
1-1/2"	2.54	2.53	$ 58.15	$ 55.28	5%	$ 87.08	$ 82.79	5%
2"	2.54	2.53	$ 58.15	$ 55.28	5%	$ 87.08	$ 82.79	5%
Commercial/Industrial Customers								
5/8"	2.45	2.45	$ 56.79	53.385	4%	$ 83.74	$ 80.13	4%
3/4"	2.81	2.81	$ 64.02	61.263	4%	$ 95.84	$ 91.72	4%
1"	3.45	3.45	$ 78.43	75.103	4%	$ 117.74	$ 112.67	4%
1-1/2"	4.95	4.95	$ 112.60	107.756	4%	$ 169.06	$ 161.79	4%
2"	6.92	6.92	$ 157.40	150.622	4%	$ 236.26	$ 226.09	4%
3"	13.65	13.73	$ 310.83	297.448	4%	$ 468.65	$ 448.47	4%
4"	24.04	24.04	$ 547.05	523.495	4%	$ 820.71	$ 785.37	4%
6"	47.27	47.27	$ 1,075.75	1029.429	4%	$ 1,613.34	$ 1,543.87	4%
8"	68.53	68.56	$ 1,560.05	1492.876	4%	$ 2,340.21	$ 2,239.47	4%
10"	94.63	95.13	$ 2,153.43	2060.754	4%	$ 3,247.30	$ 3,107.48	4%
12"	114.43	114.48	$ 2,605.31	2493.124	4%	$ 3,907.77	$ 3,739.51	4%
16"	142.43	142.48	$ 3,242.25	3102.636	4%	$ 4,863.28	$ 4,653.87	4%
20"	150.09	167.27	$ 3,501.90	3351.100	4%	$ 5,709.67	$ 5,460.02	4%

4.3.3 Summary of Existing and Forecast Water Rates

Based on the calculations from the previous two sections, the existing and proposed rates for the forecast period are shown on Tables 39 and 40 on the following two pages. Note that while the test year rates have been calculated within the cost of service study, the rates for FY 2016 and beyond are based on the overall rate revenue increase from the water utility financial plan.

TABLE 39: SUMMARY OF EXISTING AND FORECAST VOLUMETRIC WATER RATES

Water Volumetric Rates

CUSTOMER CLASS	CONSUMPTION BLOCK	UNITS	FY 2014 Existing Block Rates	Test-Year FY 2015 Proposed Block Rates	Forecast FY 2016 Proposed Block Rates	Forecast FY 2017 Proposed Block Rates	Forecast FY 2018 Proposed Block Rates	Forecast FY 2019 Proposed Block Rates	Forecast FY 2020 Proposed Block Rates	Forecast FY 202' Proposed Block Rates	Forecast FY2022 Proposed Block Rates	Forecast FY 2023 Proposed Block Rates	Forecast FY 2024 Proposed Block Rates	Forecast FY 2025 Proposed Block Rates
Tota Inside City Al Classes														
Inside City Block 1	0-30 CCF	($/CCF)	$ 7.62	$ 7.92	$ 8.22	$ 8.69	$ 8.95	$ 9.22	$ 9.48	$ 9.64	$ 9.83	$ 10.03	$ 10.23	$ 10.44
Inside City Block 2	30-2000 CCF	($/CCF)	$ 7.31	$ 7.62	$ 8.00	$ 8.36	$ 8.61	$ 8.87	$ 9.05	$ 9.27	$ 9.45	$ 9.64	$ 9.84	$ 10.03
Inside City Block 3	above 2000 CCF	($/CCF)	$ 6.70	$ 6.90	$ 7.10	$ 6.80	$ 6.90	$ 7.00	$ 7.27	$ 7.42	$ 7.63	$ 7.72	$ 7.87	$ 8.03
Tota Outside City Al Classes														
Outside City Block 1	0-30 CCF	($/CCF)	$ 11.26	$ 11.59	$ 12.49	$ 13.04	$ 13.43	$ 13.83	$ 14.19	$ 14.46	$ 14.75	$ 16.01	$ 16.35	$ 16.66
Outside City Block 2	30-2000 CCF	($/CCF)	$ 10.77	$ 11.42	$ 12.00	$ 12.54	$ 12.91	$ 13.30	$ 13.65	$ 13.90	$ 14.18	$ 14.46	$ 14.76	$ 15.05
Outside City Block 3	above 2000 CCF	($/CCF)	$ 8.68	$ 9.14	$ 9.60	$ 10.03	$ 10.33	$ 10.64	$ 10.91	$ 11.12	$ 11.35	$ 11.57	$ 11.80	$ 12.04

TABLE 40: SUMMARY OF EXISTING AND FORECAST WATER FIXED CHARGES

Water Fixed Charges

CUSTOMER CLASS	FY 2014 Existing Fixed Charge	Test Year FY 2015 Proposed Fixed Charge	Forecast FY 2016 Proposed Fixed Charge	Forecast FY 2017 Proposed Fixed Charge	Forecast FY 2018 Proposed Fixed Charge	Forecast FY 2019 Proposed Fixed Charge	Forecast FY 2020 Proposed Fixed Charge	Forecast FY 2021 Proposed Fixed Charge	Forecast FY 2022 Proposed Fixed Charge	Forecast FY 2023 Proposed Fixed Charge	Forecast FY 2024 Proposed Fixed Charge	Forecast FY 2025 Proposed Fixed Charge
Inside City Residential Customers												
5/8"	$ 21.78	$ 22.00	$ 24.06	$ 26.13	$ 26.89	$ 26.66	$ 27.33	$ 27.89	$ 28.13	$ 23.00	$ 23.69	$ 30.17
3/4"	$ 41.60	$ 44.03	$ 46.23	$ 48.31	$ 49.70	$ 51.25	$ 52.53	$ 53.59	$ 54.20	$ 55.75	$ 50.87	$ 58.50
1"	$ 56.28	$ 58.15	$ 61.05	$ 63.80	$ 65.72	$ 67.69	$ 69.38	$ 70.77	$ 72.18	$ 73.63	$ 75.10	$ 76.60
1 1/2"	$ 56.28	$ 58.15	$ 61.05	$ 63.80	$ 65.72	$ 67.69	$ 69.38	$ 70.77	$ 72.18	$ 73.63	$ 75.10	$ 76.60
2"	$ 56.28	$ 58.15	$ 61.05	$ 63.80	$ 65.72	$ 67.69	$ 69.38	$ 70.77	$ 72.18	$ 73.63	$ 75.10	$ 76.60
Inside City Commercial /Industrial Customers												
5/8"	$ 63.39	$ 66.79	$ 69.58	$ 71.71	$ 63.06	$ 64.94	$ 66.56	$ 67.90	$ 69.25	$ 71.64	$ 72.05	$ 73.49
3/4"	$ 61.26	$ 64.62	$ 67.22	$ 70.25	$ 72.36	$ 74.52	$ 76.38	$ 77.91	$ 79.47	$ 81.86	$ 82.50	$ 84.24
1"	$ 75.10	$ 78.48	$ 82.41	$ 86.11	$ 88.70	$ 91.36	$ 93.64	$ 95.52	$ 97.43	$ 99.37	$ 101.36	$ 103.39
1-1/2"	$ 107.76	$ 113.61	$ 118.23	$ 123.53	$ 127.36	$ 131.18	$ 134.36	$ 137.04	$ 139.79	$ 142.58	$ 145.43	$ 148.34
2"	$ 150.62	$ 157.40	$ 163.27	$ 172.71	$ 177.89	$ 183.22	$ 187.81	$ 191.56	$ 195.39	$ 199.30	$ 203.29	$ 207.35
3"	$ 287.45	$ 311.83	$ 325.37	$ 341.03	$ 351.29	$ 361.83	$ 370.88	$ 378.29	$ 385.86	$ 393.58	$ 401.45	$ 409.48
4"	$ 523.50	$ 547.05	$ 574.40	$ 600.25	$ 618.26	$ 636.8	$ 652.73	$ 665.78	$ 679.10	$ 692.68	$ 706.53	$ 720.66
6"	$ 1,029.40	$ 1,075.75	$ 1,129.54	$ 1,180.07	$ 1,215.70	$ 1,252.25	$ 1,283.56	$ 1,309.23	$ 1,335.41	$ 1,362.12	$ 1,389.36	$ 1,417.15
8"	$ 1,492.88	$ 1,560.15	$ 1,638.16	$ 1,711.77	$ 1,763.12	$ 1,816.01	$ 1,861.41	$ 1,898.64	$ 1,936.61	$ 1,975.35	$ 2,014.85	$ 2,055.15
10"	$ 2,080.75	$ 2,161.48	$ 2,261.16	$ 2,362.91	$ 2,433.80	$ 2,506.8	$ 2,569.48	$ 2,620.87	$ 2,673.29	$ 2,726.75	$ 2,781.29	$ 2,836.91
12"	$ 2,490.12	$ 2,605.21	$ 2,725.57	$ 2,850.67	$ 2,944.40	$ 3,032.77	$ 3,108.58	$ 3,170.76	$ 3,234.17	$ 3,298.86	$ 3,364.83	$ 3,432.13
16"	$ 3,102.64	$ 3,249.26	$ 3,404.36	$ 3,567.63	$ 3,684.28	$ 3,774.27	$ 3,868.67	$ 3,946.04	$ 4,024.96	$ 4,105.35	$ 4,187.46	$ 4,271.21
20"	$ 3,251.18	$ 3,501.08	$ 3,667.08	$ 3,842.54	$ 3,967.82	$ 4,076.56	$ 4,179.47	$ 4,262.04	$ 4,347.28	$ 4,434.23	$ 4,522.91	$ 4,613.37
Outside City Residential Customers												
5/8"	$ 32.78	$ 34.17	$ 36.87	$ 37.40	$ 38.61	$ 39.77	$ 40.77	$ 41.69	$ 42.11	$ 43.36	$ 44.13	$ 45.01
3/4"	$ 62.71	$ 65.35	$ 70.25	$ 72.37	$ 74.54	$ 76.78	$ 78.69	$ 80.27	$ 81.87	$ 83.51	$ 85.18	$ 86.89
1"	$ 82.79	$ 87.08	$ 91.43	$ 95.55	$ 98.42	$ 101.37	$ 103.90	$ 105.98	$ 108.10	$ 110.26	$ 112.47	$ 114.72
1 1/2"	$ 82.79	$ 87.08	$ 91.43	$ 95.55	$ 98.42	$ 101.37	$ 103.90	$ 105.98	$ 108.10	$ 110.26	$ 112.47	$ 114.72
2"	$ 82.79	$ 87.08	$ 91.43	$ 95.55	$ 98.42	$ 101.37	$ 103.90	$ 105.98	$ 108.10	$ 110.30	$ 112.47	$ 114.72
Outside City Commercial/Industrial Customers												
5/8"	$ 80.13	$ 82.74	$ 87.93	$ 91.83	$ 94.64	$ 97.48	$ 99.93	$ 101.91	$ 103.95	$ 106.03	$ 108.15	$ 110.32
3/4"	$ 91.72	$ 95.04	$ 100.80	$ 105.13	$ 108.32	$ 111.57	$ 114.36	$ 116.64	$ 118.90	$ 121.36	$ 123.70	$ 126.26
1"	$ 112.67	$ 117.74	$ 123.63	$ 129.19	$ 133.07	$ 137.06	$ 140.48	$ 143.30	$ 146.16	$ 149.09	$ 152.07	$ 155.11
1-1/2"	$ 181.79	$ 188.16	$ 177.62	$ 195.61	$ 191.07	$ 196.80	$ 201.75	$ 205.78	$ 209.37	$ 214.07	$ 218.35	$ 222.72
2"	$ 226.09	$ 236.26	$ 246.07	$ 259.24	$ 267.01	$ 275.02	$ 281.90	$ 287.54	$ 293.29	$ 299.15	$ 305.14	$ 311.24
3"	$ 448.47	$ 468.65	$ 483.08	$ 514.23	$ 529.66	$ 545.54	$ 559.18	$ 570.36	$ 581.77	$ 593.41	$ 605.27	$ 617.38
4"	$ 786.37	$ 821.71	$ 861.74	$ 900.62	$ 927.63	$ 955.36	$ 979.24	$ 998.83	$ 1,018.81	$ 1,039.18	$ 1,059.97	$ 1,081.17
6"	$ 1,549.07	$ 1,618.54	$ 1,694.00	$ 1,770.23	$ 1,823.34	$ 1,878.04	$ 1,924.99	$ 1,963.49	$ 2,002.76	$ 2,042.82	$ 2,083.67	$ 2,125.35
8"	$ 2,339.47	$ 2,345.24	$ 2,457.26	$ 2,557.83	$ 2,644.87	$ 2,724.2	$ 2,792.33	$ 2,848.16	$ 2,905.13	$ 2,963.23	$ 3,022.50	$ 3,082.95
10"	$ 3,107.48	$ 3,249.31	$ 3,405.67	$ 3,553.11	$ 3,670.00	$ 3,780.10	$ 3,874.60	$ 3,952.09	$ 4,031.13	$ 4,111.76	$ 4,193.99	$ 4,277.87
12"	$ 3,739.51	$ 3,907.77	$ 4,103.10	$ 4,287.83	$ 4,410.44	$ 4,548.96	$ 4,662.00	$ 4,755.81	$ 4,851.03	$ 4,948.05	$ 5,047.01	$ 5,147.95
16"	$ 4,653.87	$ 4,865.38	$ 5,105.44	$ 5,336.23	$ 5,490.32	$ 5,661.2	$ 5,802.74	$ 5,918.79	$ 6,037.17	$ 6,157.91	$ 6,281.07	$ 6,406.69
20"	$ 5,462.62	$ 5,700.67	$ 5,985.16	$ 6,234.04	$ 6,452.89	$ 6,646.48	$ 6,812.64	$ 6,949.89	$ 7,087.37	$ 7,229.63	$ 7,374.22	$ 7,521.70

4.3.4 Projected Residential Water Bills

Table 41 below indicates projected water bills for Residential Inside City customers with a 5/8" meter. Also included are estimates of the bills, which residential customer may have seen, had the City continued to purchase water from DWSD. For example, had the City continued to purchase water from DWSD, a typical Flint customer using 5 CCF per month would have an estimated water bill in FY 2015 of $67.38 Given the shift to KWA, that same customer would see a bill of $62.51, a savings of $4.87 per month, or $58.44 per year.

TABLE 41: PROJECTED RESIDENTIAL WATER BILLS

ESTIMATED MONTHLY SAVINGS (DWSD vs. KWA)	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Monthly Usage (CCF)												
1	$ -	$ (2.42)	$ (5.37)	$ (5.80)	$ (5.93)	$ (6.15)	$ (6.31)	$ (6.65)	$ (7.00)	$ (7.37)	$ (7.75)	$ (7.90)
2	$ -	$ (3.04)	$ (6.74)	$ (7.28)	$ (7.50)	$ (7.72)	$ (7.91)	$ (8.34)	$ (8.79)	$ (9.25)	$ (9.73)	$ (9.92)
3	$ -	$ (3.65)	$ (8.11)	$ (8.76)	$ (9.02)	$ (9.29)	$ (9.52)	$ (10.04)	$ (10.57)	$ (11.13)	$ (11.70)	$ (11.93)
4	$ -	$ (4.26)	$ (9.47)	$ (10.23)	$ (10.54)	$ (10.86)	$ (11.13)	$ (11.73)	$ (12.36)	$ (13.01)	$ (13.68)	$ (13.95)
5	$ -	$ (4.87)	$ (10.84)	$ (11.71)	$ (12.05)	$ (12.42)	$ (12.74)	$ (13.43)	$ (14.14)	$ (14.88)	$ (15.65)	$ (15.96)
6	$ -	$ (5.48)	$ (12.21)	$ (13.19)	$ (13.53)	$ (13.99)	$ (14.34)	$ (15.12)	$ (15.93)	$ (16.76)	$ (17.63)	$ (17.98)
7	$ -	$ (6.09)	$ (13.58)	$ (14.67)	$ (15.11)	$ (15.56)	$ (15.95)	$ (16.81)	$ (17.71)	$ (18.64)	$ (19.60)	$ (19.99)
8	$ -	$ (6.71)	$ (14.94)	$ (16.14)	$ (16.60)	$ (17.13)	$ (17.56)	$ (18.51)	$ (19.50)	$ (20.52)	$ (21.58)	$ (22.01)
9	$ -	$ (7.32)	$ (16.31)	$ (17.62)	$ (18.15)	$ (18.69)	$ (19.16)	$ (20.20)	$ (21.28)	$ (22.40)	$ (23.55)	$ (24.03)
10	$ -	$ (7.93)	$ (17.68)	$ (19.10)	$ (19.67)	$ (20.26)	$ (20.77)	$ (21.90)	$ (23.07)	$ (24.28)	$ (25.53)	$ (26.04)

RATE IMPACT 5/8" Customer (KWA Version)	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Monthly Usage (CCF)												
1	$ 29.29	$ 30.83	$ 32.37	$ 33.82	$ 34.84	$ 35.88	$ 36.78	$ 37.52	$ 38.27	$ 39.03	$ 39.81	$ 40.61
2	$ 36.81	$ 38.75	$ 40.68	$ 42.51	$ 43.79	$ 45.10	$ 46.23	$ 47.16	$ 48.10	$ 49.06	$ 50.04	$ 51.04
3	$ 44.33	$ 46.67	$ 49.00	$ 51.21	$ 52.74	$ 54.32	$ 55.68	$ 56.80	$ 57.93	$ 59.09	$ 60.27	$ 61.48
4	$ 51.85	$ 54.59	$ 57.32	$ 59.90	$ 61.69	$ 63.55	$ 65.13	$ 66.44	$ 67.77	$ 69.12	$ 70.50	$ 71.91
5	$ 59.37	$ 62.51	$ 65.64	$ 68.59	$ 70.65	$ 72.77	$ 74.59	$ 76.08	$ 77.60	$ 79.15	$ 80.73	$ 82.35
6	$ 66.88	$ 70.43	$ 73.95	$ 77.28	$ 79.60	$ 81.99	$ 84.04	$ 85.72	$ 87.43	$ 89.18	$ 90.96	$ 92.78
7	$ 74.40	$ 78.35	$ 82.27	$ 85.97	$ 88.55	$ 91.21	$ 93.49	$ 95.36	$ 97.27	$ 99.21	$ 101.20	$ 103.22
8	$ 81.92	$ 86.27	$ 90.59	$ 94.66	$ 97.50	$ 100.43	$ 102.94	$ 105.00	$ 107.10	$ 109.24	$ 111.43	$ 113.65
9	$ 89.44	$ 94.20	$ 98.91	$ 103.36	$ 106.45	$ 109.65	$ 112.39	$ 114.64	$ 116.93	$ 119.27	$ 121.66	$ 124.09
10	$ 96.96	$ 102.12	$ 107.22	$ 112.05	$ 115.41	$ 118.87	$ 121.84	$ 124.28	$ 126.77	$ 129.30	$ 131.89	$ 134.52

RATE IMPACT 5/8" Customer (DWSD Version)	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Monthly Usage (CCF)												
1	$ 29.29	$ 33.25	$ 37.74	$ 39.62	$ 40.81	$ 42.04	$ 43.09	$ 44.17	$ 45.27	$ 46.40	$ 47.56	$ 48.51
2	$ 36.81	$ 41.78	$ 47.42	$ 49.79	$ 51.29	$ 52.83	$ 54.15	$ 55.50	$ 56.89	$ 58.31	$ 59.77	$ 60.96
3	$ 44.33	$ 50.31	$ 57.11	$ 59.96	$ 61.75	$ 63.61	$ 65.20	$ 66.83	$ 68.51	$ 70.22	$ 71.97	$ 73.41
4	$ 51.85	$ 58.85	$ 66.79	$ 70.13	$ 72.24	$ 74.40	$ 76.26	$ 78.17	$ 80.12	$ 82.13	$ 84.18	$ 85.86
5	$ 59.37	$ 67.38	$ 76.48	$ 80.30	$ 82.71	$ 85.19	$ 87.32	$ 89.50	$ 91.74	$ 94.03	$ 96.39	$ 98.31
6	$ 66.88	$ 75.91	$ 86.16	$ 90.47	$ 93.13	$ 95.98	$ 98.38	$ 100.84	$ 103.36	$ 105.94	$ 108.59	$ 110.76
7	$ 74.40	$ 84.45	$ 95.85	$ 100.64	$ 103.65	$ 106.77	$ 109.44	$ 112.17	$ 114.98	$ 117.85	$ 120.80	$ 123.21
8	$ 81.92	$ 92.98	$ 105.53	$ 110.81	$ 114.13	$ 117.56	$ 120.50	$ 123.51	$ 126.60	$ 129.76	$ 133.00	$ 135.66
9	$ 89.44	$ 101.51	$ 115.22	$ 120.98	$ 124.61	$ 128.34	$ 131.55	$ 134.84	$ 138.21	$ 141.67	$ 145.21	$ 148.11
10	$ 96.96	$ 110.05	$ 124.90	$ 131.15	$ 135.09	$ 139.13	$ 142.61	$ 146.18	$ 149.83	$ 153.58	$ 157.42	$ 160.56

5. WASTEWATER UTILITY COST OF SERVICE STUDY

Following the development of the wastewater utility financial plans the next step is to determine the level of rate revenues required to adequately recover the cost of providing wastewater service. This is typically performed for a test year, which—as mentioned previously—is the year ending June 30, 2014 (FY 2015).

5.1 WASTEWATER REVENUE REQUIREMENT FROM RATES

Table 42 below indicates the level of wastewater utility expenditures which must be recovered from rates in the FY 2015 test year. As the table indicates, the total test year revenue requirement is approximately $29 Million.

TABLE 42: WASTEWATER REVENUE REQUIREMENTS

OPERATION AND MAINTENANCE EXPENDITURES Revenue/Expense Item	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 202	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Total Dept 636 101 Utilities - Sewer/Administration	$ 7,412,428	$ 7,653,042	$ 7,653,042	$ 7,653,042	$ 7,871,679	$ 8,006,618	$ 8,226,045	$ 8,563,061	$ 8,807,038	$ 9,068,001	$ 9,316,436	$ 9,582,291
Total Dept 640 100-Water Service Center Management	$ 2,713,445	$ 839,470	$ 839,470	$ 839,470	$ 866,367	$ 894,148	$ 922,849	$ 952,502	$ 983,141	$ 1,014,800	$ 1,047,513	$ 1,081,318
Total Dept 640 300-WSC - Capital Improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 640 207-Wsc-Water Reading - Sewer	$ 700,618	$ 738,419	$ 738,419	$ 738,419	$ 762,819	$ 788,273	$ 814,613	$ 841,863	$ 869,768	$ 898,358	$ 928,970	$ 960,143
Total Dept 640 208-Wsc-Sewer Maint./Construction	$ 2,703,183	$ 2,797,696	$ 2,797,696	$ 2,797,696	$ 2,896,717	$ 2,997,387	$ 3,102,837	$ 3,212,232	$ 3,325,726	$ 3,443,478	$ 3,565,664	$ 3,692,469
Total Dept 650 100-Wpc Operations	$ 5,178,142	$ 5,516,166	$ 5,100,366	$ 5,100,366	$ 5,367,112	$ 5,557,629	$ 5,755,173	$ 5,960,020	$ 6,172,460	$ 6,392,760	$ 6,621,256	$ 6,858,209
Total Dept 650 200-Wpc-Third Ave Pump Station	$ 909,913	$ 735,282	$ 735,282	$ 735,282	$ 761,801	$ 789,306	$ 817,834	$ 847,425	$ 878,119	$ 909,960	$ 942,990	$ 977,257
Total Dept 650 202 Wpc Maintenance Expense	$ 2,817,800	$ 2,012,111	$ 2,012,111	$ 2,012,111	$ 3,000,177	$ 3,100,314	$ 3,212,053	$ 3,320,211	$ 3,431,236	$ 3,546,160	$ 3,664,132	$ 3,788,303
Total Dept 650 300-WPC - Capital Improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 650 800 Non_dep_Exp Sewer Portion	$	$	$	$	$	$	$	$	$	$	$	$
Total Dept 900 101-Transfers out to fund 101	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000
Total Operation and Maintenance Expenditures	$ 24,323,527	$ 23,053,392	$ 22,720,592	$ 22,720,592	$ 23,394,671	$ 24,091,569	$ 24,812,701	$ 25,557,113	$ 26,327,481	$ 27,124,115	$ 27,947,967	$ 28,800,000

CAPITAL EXPENDITURES Revenue/Expense Item	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 202	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Grand Total Existing and Proposed Debt Service	$	$	$	$	$	$	$	$	$	$	$	$
Wastewater Rate Revenue Financing (Cash)	$ 3,600,000	$ 6,630,000	$ 10,000,000	$ 9,600,000	$ 12,600,000	$ 7,600,000	$ 8,000,000	$ 7,600,000	$ 8,000,000	$ 8,000,000	$ 8,000,000	$ 8,600,000
Add/Net Operating Surplus/(Deficit)	$ (2,650,381)	$ 1,454,161	$ (1,091,398)	$ 817,020	$ (1,396,371)	$ 3,606,363	$ 3,141,843	$ 3,824,149	$ 3,092,644	$ 3,049,055	$ 2,992,779	$ 2,420,436
Add/Wastewater Transfers to Equipment Replacement Fund	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Capital Expenditures	$ 3,049,619	$ 8,954,161	$ 8,908,604	$ 10,317,020	$ 11,203,629	$ 11,106,363	$ 11,141,843	$ 11,124,149	$ 11,092,644	$ 11,049,055	$ 10,992,779	$ 10,920,436
GROSS REVENUE REQUIREMENT FROM RATES	$ 27,373,146	$ 30,007,553	$ 31,629,196	$ 33,037,612	$ 34,498,300	$ 35,197,932	$ 35,953,544	$ 36,681,262	$ 37,420,126	$ 38,173,170	$ 38,940,746	$ 39,720,436

NON RATE REVENUES Revenue/Expense Item	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 202	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Total Non-Rate Revenues	$ 395,872	$ 404,679	$ 413,222	$ 423,318	$ 416,371	$ 434,367	$ 496,067	$ 513,187	$ 528,551	$ 543,396	$ 558,860	$ 570,367
NET REVENUE REQUIREMENT FROM RATES	$ 27,777,274	$ 29,602,874	$ 31,203,974	$ 32,614,374	$ 34,081,974	$ 34,763,574	$ 35,458,874	$ 36,168,074	$ 36,891,474	$ 37,629,274	$ 38,381,874	$ 39,149,474

5.2 WASTEWATER REVENUE REQUIREMENTS BY CUSTOMER CLASS

Following the development of the total test year revenue requirement, the proportion of that revenue requirement attributable to each customer class must be determined. This allocation is performed via the multi-step process described below.

5.2.1 O&M Allocation to Function Categories

The first step in determining revenue requirements by customer class is to allocate the test year O&M revenue requirement to functional categories. These categories are functions that the wastewater utility must perform in order to deliver wastewater service to City customers. For the wastewater utility they are: Administrative and General, Customer Service, Collection, Pumping, and Treatment.

The O&M allocations, by department, are shown in Table 43 below:

TABLE 43: WASTEWATER O&M ALLOCATION TO FUNCTIONAL CATEGORIES

DEPARTMENT	Total $ Allocation	Administrative and General	Customer Service	Collection System	Lift Stations and Pumping	Wastewater Treatment
Total Dept 536.101-Utilities - Sewer Administratior	$ 7,653,942	$ 7,653,942	$ -	$ -	$ -	$ -
Total Dept 540.100-Water Service Center Management	$ 839,476	$ -	$ 839,476	$ -	$ -	$ -
Total Dept 540.300-WSC - Capital improvements	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 540.207-Wsc-Meter Reading - Sewer	$ 738,419	$ -	$ 738,419	$ -	$ -	$ -
Total Dept 540.208-Wsc-Sewer Maint./Construction	$ 2,797,696	$ -	$ -	$ 2,797,696	$ -	$ -
Total Dept 550.100 Wpc Operations	$ 5,516,166	$	$	$	$	$ 5,516,166
Total Dept 550.200-Wpc-Third Ave Pump Station	$ 735,282	$ -	$ -	$ -	$ 735,282	$ -
Total Dept 550.202-Wpc-Maintenance Expense	$ 2,912,411	$ -	$ -	$ -	$ -	$ 2,912,411
Total Dept 550.300-WPC - Capital improvements	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 550.300-Non_dep_Exp-Sewer Portion	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 966.101-Transfers out to Func 101	$ 1,860,000	$ 1,860,000	$ -	$ -	$ -	$ -
GRAND TOTAL WASTEWATER UTILITY	$ 23,053,392	$ 9,513,942	$ 1,577,894	$ 2,797,696	$ 735,282	$ 8,428,578

5.2.2 O&M Allocation to Cost Components

Once O&M costs have been allocated to functional categories, the total O&M revenue requirement allocated to each functional category must be further allocated based on the operational need which they are designed to fulfill. For this allocation RFC has generally utilized the cost allocation methodology described in the Water Environment Federation's Manual of Practice No. 27, "Financing and Charges for Wastewater Systems."

The costs components utilized in this study are: volume or wastewater utility costs which are incurred on the basis of the quantity of wastewater discharged into the system; strength measures such as Biochemical Oxygen Demand ("BOD"), Total Suspended Solids ("TSS") and Phosphorus; and customer measures such as equivalent meters and monthly bills. A summary of the allocation of the wastewater O&M revenue requirement is included in Table 44 on the following page.

TABLE 44: WASTEWATER O&M ALLOCATION TO COST COMPONENTS

FUNCTIONAL CLASSIFICATION	Total $ Allocation	Volume Allocation	Strength			Customer	
			Allocation To BOD	Allocation to TSS	Allocation to Phosphorous	Customer Meters	Customer Bills
Administrative and General	$ 9,510,942	$ 2,402,564	$ 1,974,206	$ 1,974,206	$ 1,974,206	$ 1,100,760	$ -
Customer Service	$ 1,577,894	$ -	$ -	$ -	$ -	$ 1,577,894	$ -
Collection System	$ 2,797,696	$ 2,797,696	$ -	$ -	$ -	$ -	$ -
Lift Stations and Pumping	$ 735,282	$ 735,282	$ -	$ -	$ -	$ -	$ -
Wastewater Treatment	$ 8,428,578	$ -	$ 2,809,526	$ 2,809,526	$ 2,809,526	$ -	$ -
	$ 23,050,392	$ 6,015,542	$ 4,783,732	$ 4,783,732	$ 4,783,732	$ 2,678,654	$ -

5.2.3 Capital Cost Allocation to Functional Components

Similar to the allocation of the O&M revenue requirement described in the previous section, the capital revenue requirement must be allocated to functional categories. Table 45 below indicates the allocation of capital costs.

TABLE 45: WASTEWATER CAPITAL ALLOCATION TO FUNCTIONAL CATEGORIES

Allocation of Capital Costs to Functional Categories						
	Total	Administrative and General	Customer Service	Collection System	Lift Stations and	Wastewater Treatment
Breakdown of Fixed Assets by Function	100%	0.32%	0.00%	82.79%	4.31%	12.58%
Total Capital Expenditures	$ 7,230,845	$ 22,823.92	$ -	$ 5,986,709	$ 311,745	$ 909,567

$ Allocation of Water Fixed Assets to Functional Categories						
FIXED ASSET CATEGORY	Net Book Value	Administrative and General	Customer Service	Collection System	Lift Stations and	Wastewater Treatment
01Land	$ 38,077	$ 120	$ -	$ 31,526	$ 1,642	$ 4,790
02Construction-in-progress	$ 527,286	$ 1,664	$ -	$ 436,531	$ 22,733	$ 66,327
11Land Improvements	$ 3,480,377	$ 10,986	$	$ 2,881,545	$ 150,050	$ 437,796
12Building Improvements	$ 752,952	$ 2,377	$	$ 623,399	$ 32,462	$ 94,714
13Sewage disposal plant & equipment	$ 6,581,111	$	$	$	$	$ 6,581,111
14Vehicle	$ 456,125	$ -	$ -	$ 456,125	$ -	$ -
15 Sewage Pumping Station	$ 2,255,719	$ -	$ -	$ -	$ 2,255,719	$ -
16Office & Other Equipment	$ 28,892	$ 28,892	$ -	$ -	$ -	$ -
17Sewer SSR	$ 42,362,474	$ -	$ -	$ 42,862,474	$ -	$ -
18Sanitary Sewers (Engg only)	$ 136,257	$ 136,257	$ -	$ -	$ -	$ -
Total Water Fixed assets	$ 57,119,603	$ 180,296	$ -	$ 47,291,630	$ 2,462,606	$ 7,185,071
% Breakdown	100.00%	0.32%	0.00%	82.79%	4.31%	12.58%

As the table above indicates, the basis for the allocation of capital costs was the existing level of wastewater utility investment in fixed assets. The existing net book value of each major asset class was allocated to the functional categories. The total capital revenue requirement, approximately 7 Million in the test year, was then allocated according to the proportion of existing investment in each functional category. For example, a large proportion of investment in wastewater fixed assets relates to the rehabilitation of the City's collection system ("Sewer SSR"). As such, the majority of the capital revenue requirement (82%) has been allocated to the collection system function.

5.2.4 Capital Cost Allocation to Cost Components

As with the allocation of the O&M revenue requirement described above, the functionally allocated capital revenue requirement must also be further allocated according to the operational need that each function is designed to fulfill.

Table 46 below summarizes this allocation.

TABLE 46: WASTEWATER CAPITAL ALLOCATION TO COST COMPONENTS

			Strength			Customer	
FUNCTIONAL CLASSIFICATION	Total $ Allocation	Volume Allocation	Allocation To BOD	Allocation to TSS	Allocation to Phosphorous	Customer Meters	Customer Bills
Administrative and General	22,824	19,944	960	960	960	-	-
Customer Service	-	-	-	-	-	-	-
Collection System	5,986,709	5,986,709	-	-	-	-	-
Lift Stations and Pumping	311,745	311,745	-	-	-	-	-
Wastewater Treatment	909,567	-	303,189	303,189	303,189	-	-
Total Capital Expenditures	7,230,845	6,318,397	304,149	304,149	304,149	-	-

5.2.5 Non-Rate Revenue Allocation to Cost Components

Non-rate revenue must be excluded from the O&M and Capital revenue requirements as these amounts are an offset to the revenue requirement which will be recovered from rates. Consequently, non-rate revenues are allocated to the cost components so that they can be removed from the total revenue requirement. In this case, non-rate revenues were allocated proportionally according to the total O&M revenue requirement allocation and can be seen in Table 47 below.

TABLE 47: WASTEWATER NON-RATE REVENUE ALLOCATION TO COST COMPONENTS

			Strength			Customer	
ACCOUNT CODE DESCRIPTION	Total $ Allocation	Volume Allocation	Allocation To BOD	Allocation to TSS	Allocation to Phosphorou	Customer Meters	Customer Bills
590-536.101-455.000Eus.Licences & Fermits - Utilities	21,872	5,707	4,539	4,539	4,539	2,549	-
590-536.101-530.000Federal Grants	-	-	-	-	-	-	-
590 536.101 539.000State Grants							
590-536.101-657.000Fines - Turn- On Fees - Utilities	-	-	-	-	-	-	-
590-536.101-657.100Forfeted Discount - Utilities	350,000	91,329	72,627	72,627	72,627	40,789	-
590-536.101-696.000Self Insurance recoveries	-	-	-	-	-	-	-
590-536.101-699.998Due From Fund Balance	-	-	-	-	-	-	-
590-536.101-699.999Prior Year Revenue	-	-	-	-	-	-	-
590-540.100-677.000Reimbursements	-	-	-	-	-	-	-
590-540.200-620.000Charges For Services Rendered	-	-	-	-	-	-	-
590-540.208-626.900Charges For Service Rendered - Intercity	-	-	-	-	-	-	-
590-540.208-677.000Reimbursements	-	-	-	-	-	-	-
590-540.208-677.500Reimbursements -proprietary funds	-	-	-	-	-	-	-
590 650.100 648.000Scrap Sales	20,000	5,219	4,150	4,150	4,150	2,331	
590-550.100-649.000Auction Rev - Forfeited & Others	-	-	-	-	-	-	-
590-550.100-657.000Fines - Turn- On Fees - Utilities	-	-	-	-	-	-	-
590-550.100-677.000Reimbursements	-	-	-	-	-	-	-
590-550.100-699.998Due From Fund Balance	-	-	-	-	-	-	-
590-550.200-696.000Discounts Earned	2,000	522	415	415	415	233	-
590-550.201-455.000Eus.Licences & Fermits - Utilities	2,000	522	415	415	415	233	-
590-550.202-699.990Due From Fund Balance	-	-	-	-	-	-	-
590-550.800-664.100Interest Earned	27,690	7,226	5,746	5,746	5,746	3,227	-
Add Transfers in from General Fund	-	-	-	-	-	-	-
Total Non-Rate Revenues	423,562	110,524	87,892	87,892	87,892	49,362	-

5.2.6 Plant Balance Analysis

Once each component of the revenue requirements has been determined, wastewater strength units, by customer class must be estimated. These are the basis upon which the strength costs, determined in the previous step, are allocated to each customer class.

This allocation is performed via a proportional distribution of each measure of strength to each customer class, based on the contribution of that class to overall billed wastewater volumes. This calculation is shown in Table 48 below.

TABLE 48: WASTEWATER PLANT BALANCE ANALYSIS CALCULATIONS

CUSTOMER CLASS		Test Year Volume (CCF)	Biochemical Oxygen Demand mg/L	Biochemical Oxygen Demand Pounds	Total Suspended Solids mg/L	Total Suspended Solids Pounds	Phosphorous mg/L	Phosphorous Pounds	Test Year Combined Pounds
Treatment Plant Volumes		3,663,013	84.5	1,935,331.27	78.5	1,797,911.30	4.225	96,766.56	3,830,009
Less:									
Total Inside City Residentia		1,575,663	100	989,080	93	916,437	2	17,177	1,922,694
Total Inside City Commercial/Industrial		1,393,721	100	877,451	93	813,007	2	15,238	1,705,696
Total Outside City Residential		208	100	129	93	120	2	2	25
Total Outside City Commercial/Industrial		7,012	100	4,399	93	4,076	2	76	8,550
Total System Billed Volumes		2,982,604	100	1,871,059	93	1,733,639	2	32,494	3,637,192
Total Infiltration and Inflow		685,412	15	64,272.49	15	64,272.49	15	64,272.49	192,817
Balance		-		(U)		(U)		-	-
Gallons per CCF	748								
Milligrams per Pound	453,592								
Liters per Gallon	3.78541								
% Infiltration and Inflow		23%							

As an example, consider Biochemical Oxygen Demand. The proportion of BOD contributed to the wastewater system by each class, is function of the overall volume contributed by that class. Therefore the BOD units are allocated to each customer class based on their proportion of total billed volumes. Inside City Residential customers, for example, are forecasted to contribute 1.5 Million CCF in billed wastewater volumes in the test year, or 53% of total billed volumes. Consequently, they are assigned 53% of total forecast BOD. The same calculations are performed for the remaining strength units, TSS and Phosphorous.

The result is a total level of strength units for each customer class, which is then used to determine unit costs by customer class and allocate the test year revenue requirement.

5.2.7 Calculation of Units of Service

The next step in the cost allocation process is to summarize the units of service, which are used as the basis for the allocation of the total revenue requirement to each of the customer classes. The units pertain to each of the cost components mentioned above (i.e. strength, volume and customer units). In the following step, the units will be used to determine a unit cost for each cost component.

The wastewater units of service are shown in Table 49 below.

TABLE 49: WASTEWATER UNITS OF SERVICE

WASTEWATER UNITS OF SERVICE		Residential		Commercial/Industrial	
	Total System (CCF)	Total Inside City Residential	Total Outside City Residential	Total Inside City Commercial/Industrial	Total Outside City Commercial/Industrial
Volume Units					
% Breakdown		52.9%	0.0%	46.9%	0.2%
Tota System Billed Volumes	2,982,604	',576,636	206	1 398,721	7,012
Tota Infiltration and Inflow	686,412	362,852	47	32',900	1,614
Tota Volume	3,669,016	',939,517	253	1 720,620	8,625
Strength Units					
EOC	1,871,059	989,030	129	877,451	4,399
TSS	1,733,639	916,437	120	813,007	4,076
Phosporous	32,494	17,177	2	15,238	76
Tota Wastewater Strength (Pounds)	3,637,192	',922,634	251	1 705,696	8,550
Customer Units					
Meters	33,177	25,436	6	7,699	35
Bills	315,952	301,096	71	14,646	137

As mentioned above the units determined for each customer class are volume (the total forecast wastewater contribution) strength (the proportion of wastewater strength units determined in the plant balance analysis) and customer (equivalent meters and customer bills as in the water cost of service study).

5.2.8 Unit Cost of Service

Following the allocation of the wastewater revenue requirements to each of the cost components and the calculation of the units of service, a unit cost of service for each cost component can be determined. These unit costs are the basis by which the revenue requirements by customer class are determined.

The unit cost of service is the total revenue requirement, as allocated to the cost components, divided by the units of service attributable to each component and is shown in Table 50 on the following page.

TABLE 50: WASTEWATER UNIT COST OF SERVICE

Wastewater Units of Service		Strength			Customer	
CUSTOMER CLASS	Volume Allocation	Allocation To BOD	Allocation to TSS	Allocation to Phosphorous	Customer Meters	Customer Bills
Total Inside City Residential	',939,517	989,080	915,437	17,177	25,436	301,096
Total Outside City Residential	253	129	120	2	6	7
Total Inside City Commercial/Industrial	',720,620	877,451	813,007	15,238	7,639	14,646
Total Outside City Commercial/Industrial	3,625	4,399	4,076	76	35	137
Grand Total System Units of Service	3,669,016	1,871,059	',733,639	32,494	33,177	315,952

Wastewater 'Cash Basis' Revenue Requirements			Strength			Customer	
REVENUE REQUIREMENT	Total	Volume Allocation	Allocation To BOD	Allocation to TSS	Allocation to Phosphorous	Customer Meters	Customer Bills
Total Operation and Maintenance Expenditures	$ 23,053,392	$ 6,015,542	$ 4,783,732	$ 4,783,732	$ 4,783,732	$2,686,654	$ -
Unit Cost		$ 1.64	$ 2.56	$ 2.76	$ 147.22	$ 80.98	$ -
Total Capital Expenditures	$ 7,230,845	$ 6,313,397	$ 304,149	$ 304,149	$ 304,149	$ -	$ -
Unit Cost		$ 1.72	$ 0.16	$ 0.18	$ 9.36	$ -	$ -
Total Non-Rate Revenues	$ (423,562)	$ (110,524)	$ (87,392)	$ (87,892)	$ (87,892)	$ (49,352)	$
Unit Cost		$ (0.03)	$ (0.05)	$ (0.05)	$ (2.70)	$ (1.49)	$ -
Total System Revenue Requirements	$ 29,860,674	$ 12,223,415	$ 4,999,989	$ 4,999,989	$ 4,999,989	$2,637,292	$ -
Total System Unit COS	$ -	$ 3.33	$ 2.67	$ 2.88	$ 153.87	$ 79.49	$ -

For example, the total volume units are 3.6 Million CCF. This means that the O&M, Capital and Non-Rate Revenue Requirements cost $1.64, $1.72 and $(.03) per unit of wastewater volume. The total unit cost associated with wastewater volume is $3.33/CCF. The calculation is repeated for each cost component to determine the overall unit cost associated with wastewater volume, strength (BOD, TSS and Phosphorous) and customer service.

5.2.9 Revenue Requirements by Customer Class

The customer class revenue requirements are the basis for establishing alternative rates by customer class. The City's existing wastewater rate structure does not include distinct rates by customer class. At this time the City does not wish to make major rate structure changes. However, the revenue requirements by customer class are shown in Table 51 on the following page and are the basis for the alternative wastewater rates presented as appendix B to this report.

TABLE 51: WASTEWATER REVENUE REQUIREMENTS BY CUSTOMER CLASS

Wastewater Units of Service			Strength			Customer	
CUSTOMER CLASS		Volume Allocation	Allocation To BOD	Allocation to TSS	Allocation to Phosphorous	Customer Meters	Customer Bills
Total System Revenue Requirements	$ 29,860,674	$ 12,223,415	$ 4,999,989	$ 4,999,989	$ 4,999,989	$2 637,292	$ -
Total System Unit COS		$ 3.33	$ 2.67	$ 2.88	$ 153.67	$ 79.49	$ -
Units of Service							
Total Inside City Residential		1,939,517	989,080	916,437	17,177	25,436	301,096
Total Inside City Commercial/Industrial		1,720,620	877,451	813,007	15,238	7,699	14,646
		3,660,138	1,866,531	1,729,444	32,415	33,136	315,743
Total Outside City Residential		253	129	120	2	6	71
Total Outside City Commercial/Industrial		8,625	4,399	4,076	76	36	137
		8,878	4,528	4,195	79	42	209
Total System Units of Service		3,669,016	1,871,059	1,733,639	32,494	33,177	315,952
Allocated Cost of Service							
Total Inside City Residential COS	$ 16,412,799	$ 6,461,549	$ 2,643,097	$ 2,643,097	$ 2,643,097	$2 021,959	$
Total Inside City Commercial/Industrial COS	$ 13,378,697	$ 5,732,288	$ 2,344,793	$ 2,344,793	$ 2,344,793	$ 612,030	$ -
Total Inside City All Classes	$ 29,791,496	$ 12,193,837	$ 4,987,890	$ 4,987,890	$ 4,987,890	$2 633,989	$ -
Total Outside City Residential COS	2,382.16	$ 843	$ 345	$ 345	$ 345	$ 505	$ -
Total Outside City Commercial/Industrial COS	66,796.05	$ 28,735	$ 11,754	$ 11,754	$ 11,754	$ 2,798	$ -
Total Outside City All Classes	$ 69,178	$ 29,578	$ 12,099	$ 12,099	$ 12,099	$ 3,303	$
Total System Cost of Service	$ 29,860,674	$ 12,223,415	$ 4,999,989	$ 4,999,989	$ 4,999,989	$2 637,292	$ -
Check on Total System COS (Should be $0)	$ -						

The revenue requirement for each customer class is the total unit cost of service determined previously, multiplied by the units of service for each customer class. The result is a total allocation to each customer class made up of each of the cost components discussed previously. The allocation is based on each customer class's contribution to the wastewater utility's overall operating and capital costs, as represented by their units of service.

5.3 WASTEWATER RATE DESIGN

The wastewater rates have been calculated under the existing rate structure and under a new structure which recognizes the customer classes present in the City's CIS. The rate calculation under existing rates will be presented here, with the alternative rates by customer class presented as an appendix B.

5.3.1 Volumetric Rate Calculations

As mentioned above, the City did not indicate a desire to significantly modify the existing wastewater rate structure. Therefore RFC maintained various components of the existing water volumetric rates including:

- The existing inside/outside city differential (i.e. outside=110% of inside)
- The existing structure which charges the same volumetric rates for all customer classes
- The existing shift of some volumetric costs to the fixed service charge (i.e. a readiness to serve adjustment)

The calculation of the wastewater volumetric rates involves the following steps

- Determine total composite volumetric revenue requirement:
    - Adjust the test-year revenue requirement allocated to the volume cost component by the readiness to serve amount
    - Add the wastewater strength related cost components (BOD, TSS and Phosphorous)
    - Remove Beecher Metro Revenue
    - Add the inside and outside city revenue requirements to determine a composite revenue requirement for all customer classes
- Determine the composite wastewater units:
    - Multiply the units of inside and outside city customers by the existing I/O differential (Outside=110% of Inside)
    - Add those units together.
- Calculate Inside and Outside City Volumetric Rates:
    - Determine a composite rate for all customer classes by dividing the total composite revenue requirement determined above, by the total composite wastewater units
    - Multiply the composite rates by the Inside and Outside City differentials (100% for Inside City and 110% for Outside City) to determine the rates for each customer class.

The above calculations are summarized in Table 52 on the following page.

TABLE 52 WASTEWATER VOLUMETRIC RATE CALCULATIONS

	Revenue Requirements								Test Year Volumes					Test Year Rate Calculation			
	Test Year Volume	Test Year Strength	Test Year Strength	Test Year Strength	Test Year Total	Less	Adjusted Revenue	Computed Revenue	Test Year Billed	Test Year Billed	Test Year Differential	Test Year Adjusted	Test Year Computed	Test Year Volumetric	Test Year Billing		
							Requirement	Requirement									
EXISTING RATE SECTION																	
Total Inside City Use	$ 1,131,215	$ 4,881,280	$ 4,881,280	$ 4,881,280	$ -	$ -	$ -	$ -									
RTS Adjustment	$ (11,078,308)	$ -	$ -	$ -	$ -	$ -	$ -	$ -									
Total Inside City All Classes	$ 1,115,523	$ 4,881,280	$ 4,881,280	$ 4,881,280	$ 16,079,196	$ (711,543)	$ 15,367,655	$ 15,417,914	2,962,604	100.00%	1.000	2,962,326	2,962,326	$ 5.17	$ 4.8	$ 0.37	8%
Total Outside City Use	$ 79,473	$ 12,059	$ 12,059	$ 12,059	$ -	$ -	$ -	$ -									
RTS Adjustment	$ (13,359)	$ -	$ -	$ -	$ -	$ -	$ -	$ -									
Total Outside City All Classes	$ 15,852	$ 12,059	$ 12,059	$ 12,059	$ 51,359	$ (1,736)	$ 49,295	$ -			1.000			$ 5.65	$ 5.29	$ 0.43	8%
Total System	$ 1,131,215	$ 4,893,339	$ 4,893,339	$ 4,893,339	$ 16,131,183	$ (713,279)	$ 15,417,911	$ 15,417,914									

5.3.2 Fixed Charge Calculations

As noted above, the City did not express a desire to change rate structures at this time. Consequently, the following aspects of the existing rate structure have been maintained including:

- The existing inside/outside city differential (i.e. outside=120% of inside)
- The existing shift of some volumetric costs to the fixed service charge (i.e. a readiness to serve adjustment)
- The flow equivalencies for the various meter sizes

The calculation of the wastewater fixed charges involves the following steps:

- Determine total composite fixed charge revenue requirement by summing the fixed charge revenue requirements (i.e. those allocated to the customer service related cost components) and the readiness to serve revenue requirement.
- Determine the composite fixed charge wastewater units:
    - Multiply the number of inside and outside city equivalent accounts by the existing I/O differential (Outside=120% of Inside)
    - Add those units together to determine the composite number of equivalent customer accounts
- Calculate Inside and Outside City Volumetric Rates by:
    - Determine an annual composite rate for all customer classes by dividing the total composite revenue requirement determined above, by the total composite wastewater equivalent accounts
    - Determine a monthly rate for the 5/8" equivalent account by dividing the annual rate by 12.
    - Multiply the composite fixed charges by the Inside and Outside City differentials (100% for Inside City and 110% for Outside City) to determine the monthly fixed charge per 5/8" equivalent account for inside and outside city customer classes.
    - Multiply the monthly fixed charge for a 5/8" equivalent account by the meter equivalencies for each meter size to determine the monthly fixed charge for the remaining meter sizes.

The calculations described in the narrative above are summarized in Table 53 on the following page.

TABLE 53: WASTEWATER FIXED CHARGE CALCULATIONS

CUSTOMER CLASS	Readiness to Serve Adjustment: Fixed Charge Revenue Requirement	Readiness to Serve Adjustment: Adjustment	Readiness to Serve Revenue Req.	Base Fixed: RR Allocated on Customer Services	Base Fixed: RR Allocated on Customer Bills
Total Inside City Residential COS	$ 2,021,959	420.6%	$ 8,504,168	$ 2,021,959	$ -
Total Outside City Residential COS	$ 505	420.6%	$ 2,123	$ 505	$ -
Total Inside City Commercial/Incustrial COS	$ 612,030	420.6%	$ 2,574,140	$ 612,030	$ -
Total Outside City Commercial/Industrial COS	$ 2,798	420.6%	$ 11,768	$ 2,798	$
Total Inside City Residential COS Adjustment	$ 2,021,959	$ 8,504,168			
Total Outside City Residential COS Adjustment	$ 505	$ 2,123			
Total Inside City Commercial/Incustrial COS Adjustment	$ 612,030	$ 2,574,140			
Total Outside City Commercial/Industrial COS Adjustment	$ 2,798	$ 11,768			

CHARGE	Total Revenue Requirements By Charge	Composite Revenue Requirements	Equivalent Accounts	Test Year Differential ____ Times Inside City	Test Year Adjusted Equivalent Accounts	Test Year Composite Equivalent Accounts	Monthly Fixed Charge Per 5/8" Equivalent
Total Inside City Residential	$ 10,526,127	$ 10,528,755	25,436	1.00	25,436	25,444	$ 34.48
Total Inside City Commercial/Incustrial	$ 3,186,170	$ 3,200,736	7,699	1.00	7,699	7,742	$ 34.45
	$ 13,712,298	$ 13,729,491	33,136		33,136	33,186	
Total Outside City Residential	$ 2,327		6	1.2	8		$ 41.38
Total Outside City Commercial/Industrial	$ 14,866		35	1.2	42		$ 41.34
	17,193		42		50		

CUSTOMER CLASS	Inside City Meter Equivalency	Inside City Meter Equivalency	Proposed Fixed Charge INSIDE CITY	Existing Fixed Charge INSIDE CITY	Difference	Proposed Fixed Charge OUTSIDE CITY	Existing Fixed Charge OUTSIDE CITY	Difference
Residential Customers								
5/8"	1.00	1.07	$ 34.48	$ 32.00	8%	$ 44.19	$ 41.01	8%
3/4"	1.47	1.46	$ 50.56	$ 46.92	8%	$ 60.35	$ 56.01	8%
1"	2.04	2.00	$ 70.41	$ 65.34	8%	$ 82.36	$ 76.99	8%
1-1/2"	2.04	2.00	$ 70.41	$ 65.34	8%	$ 82.36	$ 76.99	8%
2"	2.04	2.00	$ 70.41	$ 65.34	8%	$ 82.36	$ 76.99	8%
Commercial/Industrial Customers								
5/8"	1.62	1.51	$ 55.90	51.979	8%	$ 62.57	$ 58.12	8%
3/4"	2.01	1.92	$ 69.37	64.434	8%	$ 79.26	$ 73.62	8%
1"	2.65	2.55	$ 91.20	84.708	8%	$ 105.56	$ 98.05	8%
1-1/2"	4.31	4.29	$ 148.40	137.843	8%	$ 177.43	$ 164.80	8%
2"	6.13	6.05	$ 211.19	196.163	8%	$ 250.24	$ 232.43	8%
3"	13.69	13.62	$ 471.62	438.063	8%	$ 562.83	$ 522.87	8%
4"	22.56	22.07	$ 777.14	721.042	0%	$ 953.09	$ 906.01	0%
6"	45.62	46.09	$ 1,571.80	1459.948	8%	$ 1,905.74	$ 1,770.13	8%
8"	67.13	66.92	$ 2,312.79	2148.213	8%	$ 2,849.27	$ 2,646.52	8%
10"	91.19	91.73	$ 3,141.97	2918.392	8%	$ 3,792.41	$ 3,522.54	8%
12"	107.06	107.61	$ 3,688.72	3426.233	8%	$ 4,449.17	$ 4,132.57	8%
16"	141.36	142.17	$ 4,870.53	4523.945	8%	$ 5,919.11	$ 5,497.91	8%
20"	166.45	170.09	$ 5,734.96	5326.865	8%	$ 7,032.44	$ 6,532.02	8%

5.3.3 Summary of Existing and Forecast Wastewater Rates

Based on the calculations from the previous two sections, the existing and proposed rates for the forecast period are shown in Tables 54 and 55 on the following page.

Note that while the test year FY 2015 rates have been calculated within the cost of service study, the rates for FY 2016 and beyond are based on the overall rate revenue increase from the wastewater utility financial plan.

TABLE 64: SUMMARY OF EXISTING AND FORECAST VOLUMETRIC WASTEWATER RATES

CUSTOMER CLASS		Test Year FY 2014 Existing Rates	Test Year FY 2015 Proposed Rates	Forecast FY 2016 Proposed Rates	Forecast FY 2017 Proposed Rates	Forecast FY 2018 Proposed Rates	Forecast FY 2019 Proposed Rates	Forecast FY 2020 Proposed Rates	Forecast FY 2021 Proposed Rates	Forecast FY 2022 Proposed Rates	Forecast FY 2023 Proposed Rates	Forecast FY 2024 Proposed Rates	Forecast FY 2025 Proposed Rates
Total Inside City All Classes	($/CCF)	$ 4.00	$ 5.17	$ 5.53	$ 5.92	$ 6.10	$ 6.27	$ 6.40	$ 6.50	$ 6.69	$ 6.83	$ 6.90	$ 7.10
Total Outside City All Classes	($/CCF)	$ 5.29	$ 5.68	$ 6.08	$ 6.51	$ 6.80	$ 6.94	$ 7.08	$ 7.22	$ 7.36	$ 7.51	$ 7.66	$ 7.81

TABLE 55: SUMMARY OF EXISTING AND FORECAST WASTEWATER FIXED CHARGES

CUSTOMER CLASS	Test-Year FY 2014 Existing Rates	Test-Year FY 2015 Proposed Rates	Forecast FY 2016 Proposed Rates	Forecast FY 2017 Proposed Rates	Forecast FY 2018 Proposed Rates	Forecast FY 2019 Proposed Rates	Forecast FY 2020 Proposed Rates	Forecast FY 2021 Proposed Rates	Forecast FY 2022 Proposed Rates	Forecast FY 2023 Proposed Rates	Forecast FY 2024 Proposed Rates	Forecast FY 2025 Proposed Rates
Inside City Residential Customers												
5/8"	$ 32.00	$ 34.40	$ 36.90	$ 39.40	$ 41.26	$ 42.00	$ 42.82	$ 40.70	$ 44.66	$ 46.55	$ 46.46	$ 47.39
3/4"	$ 46.92	$ 50.56	$ 54.10	$ 57.89	$ 60.49	$ 61.70	$ 62.94	$ 64.19	$ 65.48	$ 66.79	$ 68.12	$ 69.49
1"	$ 65.34	$ 70.41	$ 75.33	$ 80.61	$ 84.24	$ 85.92	$ 87.64	$ 89.39	$ 91.18	$ 93.00	$ 94.86	$ 96.76
1-1/2"	$ 65.34	$ 70.41	$ 75.33	$ 80.61	$ 91.24	$ 86.02	$ 87.61	$ 89.39	$ 91.18	$ 93.00	$ 94.86	$ 96.76
2"	$ 65.34	$ 70.41	$ 75.33	$ 80.61	$ 84.24	$ 85.92	$ 87.64	$ 89.39	$ 91.18	$ 93.00	$ 94.86	$ 96.76
Inside City Commercial /Industrial Customers												
5/8"	$ 61.92	$ 65.90	$ 69.81	$ 64.00	$ 66.88	$ 68.21	$ 69.58	$ 70.97	$ 72.39	$ 73.84	$ 75.31	$ 76.82
3/4"	$ 64.43	$ 69.37	$ 74.23	$ 79.42	$ 83.00	$ 84.66	$ 86.35	$ 88.08	$ 89.84	$ 91.63	$ 93.47	$ 95.34
1"	$ 84.71	$ 91.20	$ 97.58	$ 104.41	$ 109.11	$ 111.29	$ 113.52	$ 115.79	$ 118.10	$ 120.47	$ 122.88	$ 125.33
1-1/2"	$ 167.04	$ 140.40	$ 150.79	$ 169.91	$ 177.55	$ 101.10	$ 104.70	$ 100.42	$ 192.19	$ 196.00	$ 199.95	$ 203.95
2"	$ 166.16	$ 211.19	$ 225.97	$ 241.79	$ 252.67	$ 257.73	$ 262.88	$ 268.14	$ 273.50	$ 278.97	$ 284.55	$ 290.24
3"	$ 438.06	$ 471.62	$ 504.64	$ 539.96	$ 564.26	$ 575.55	$ 587.06	$ 598.80	$ 610.77	$ 622.99	$ 635.45	$ 648.16
4"	$ 721.91	$ 777.14	$ 831.64	$ 890.76	$ 930.70	$ 949.30	$ 967.35	$ 986.70	$ 1,006.43	$ 1,026.56	$ 1,047.00	$ 1,068.01
6"	$ 1,459.95	$ 1,571.80	$ 1,681.82	$ 1,799.55	$ 1,880.53	$ 1,918.14	$ 1,956.50	$ 1,995.63	$ 2,035.54	$ 2,076.26	$ 2,117.78	$ 2,160.14
8"	$ 2,148.21	$ 2,312.79	$ 2,474.68	$ 2,647.91	$ 2,767.07	$ 2,822.41	$ 2,878.86	$ 2,936.44	$ 2,995.16	$ 3,055.07	$ 3,116.17	$ 3,178.49
10"	$ 2,948.39	$ 3,141.97	$ 3,361.91	$ 3,597.24	$ 3,759.12	$ 3,834.30	$ 3,910.99	$ 3,989.21	$ 4,068.99	$ 4,150.37	$ 4,233.38	$ 4,318.06
12"	$ 3,426.23	$ 3,868.72	$ 3,946.93	$ 4,223.22	$ 4,413.26	$ 4,501.52	$ 4,591.56	$ 4,683.39	$ 4,777.05	$ 4,872.60	$ 4,970.05	$ 5,069.46
16"	$ 4,623.96	$ 4,870.53	$ 5,211.47	$ 5,576.27	$ 5,827.20	$ 5,948.74	$ 3,052.62	$ 6,183.87	$ 6,307.55	$ 6,433.70	$ 6,562.37	$ 6,693.62
20"	$ 5,326.87	$ 5,734.96	$ 6,136.41	$ 6,565.96	$ 6,861.42	$ 3,998.65	$ 7,138.63	$ 7,281.40	$ 7,427.03	$ 7,575.57	$ 7,727.08	$ 7,881.62
Outside City Residential Customers												
5/8"	$ 41.01	$ 44.19	$ 47.28	$ 50.59	$ 52.87	$ 53.93	$ 55.01	$ 56.11	$ 57.23	$ 58.37	$ 59.54	$ 60.73
3/4"	$ 56.01	$ 60.35	$ 64.57	$ 69.09	$ 72.20	$ 73.64	$ 75.12	$ 76.62	$ 78.15	$ 79.72	$ 81.31	$ 82.94
1"	$ 76.00	$ 82.06	$ 88.76	$ 01.09	$ 00.25	$ 101.23	$ 103.26	$ 105.32	$ 107.43	$ 105.58	$ 111.77	$ 114.01
1-1/2"	$ 76.99	$ 82.96	$ 88.76	$ 94.98	$ 99.25	$ 101.23	$ 103.26	$ 105.32	$ 107.43	$ 105.58	$ 111.77	$ 114.01
2"	$ 76.99	$ 82.96	$ 88.76	$ 94.98	$ 99.25	$ 101.23	$ 103.26	$ 105.32	$ 107.43	$ 105.58	$ 111.77	$ 114.01
Outside City Commercial/Industrial Customers												
5/8"	$ 58.12	$ 62.57	$ 66.95	$ 71.64	$ 74.86	$ 76.36	$ 77.89	$ 79.44	$ 81.03	$ 82.65	$ 84.31	$ 85.99
3/4"	$ 73.62	$ 79.26	$ 84.81	$ 90.75	$ 94.83	$ 96.73	$ 98.66	$ 100.64	$ 102.65	$ 104.70	$ 106.80	$ 108.93
1"	$ 98.00	$ 105.50	$ 112.95	$ 120.80	$ 120.30	$ 128.82	$ 131.40	$ 134.03	$ 130.71	$ 139.44	$ 142.23	$ 145.08
1-1/2"	$ 164.80	$ 177.43	$ 189.85	$ 203.14	$ 212.28	$ 216.52	$ 220.86	$ 225.27	$ 229.78	$ 234.37	$ 239.06	$ 243.84
2"	$ 232.43	$ 250.24	$ 267.76	$ 286.50	$ 299.39	$ 305.38	$ 311.49	$ 317.72	$ 324.07	$ 330.55	$ 337.17	$ 343.91
3"	$ 622.97	$ 662.03	$ 602.33	$ 641.10	$ 679.60	$ 686.07	$ 700.71	$ 714.72	$ 729.01	$ 743.60	$ 758.47	$ 773.61
4"	$ 886.01	$ 953.89	$ 1,020.66	$ 1,092.10	$ 1,141.25	$ 1,164.07	$ 1,187.36	$ 1,211.10	$ 1,235.32	$ 1,260.03	$ 1,285.23	$ 1,310.94
6"	$ 1,770.13	$ 1,905.74	$ 2,039.14	$ 2,181.88	$ 2,280.07	$ 2,325.67	$ 2,372.18	$ 2,419.62	$ 2,468.02	$ 2,517.38	$ 2,567.72	$ 2,619.08
8"	$ 2,648.52	$ 2,849.27	$ 3,048.72	$ 3,262.13	$ 3,409.93	$ 3,477.11	$ 3,546.65	$ 3,617.58	$ 3,689.93	$ 3,763.73	$ 3,839.01	$ 3,915.79
10"	$ 3,522.54	$ 3,762.41	$ 4,057.88	$ 4,341.93	$ 4,537.31	$ 4,628.06	$ 4,720.62	$ 4,815.03	$ 4,911.33	$ 5,009.56	$ 5,109.75	$ 5,211.95
12"	$ 4,132.57	$ 4,449.17	$ 4,760.62	$ 5,093.86	$ 5,323.08	$ 5,429.54	$ 5,538.14	$ 5,648.90	$ 5,761.88	$ 5,877.11	$ 5,994.66	$ 6,114.55
16"	$ 5,467.91	$ 5,919.11	$ 6,333.45	$ 6,776.79	$ 7,081.75	$ 7,223.38	$ 7,367.85	$ 7,515.21	$ 7,665.51	$ 7,818.82	$ 7,975.20	$ 8,134.70
20"	$ 6,552.02	$ 7,092.44	$ 7,524.72	$ 8,051.45	$ 8,413.76	$ 3,582.04	$ 3,753.68	$ 8,928.75	$ 9,107.33	$ 9,289.47	$ 9,475.26	$ 9,664.77

5.3.4 Projected Residential Wastewater Bills

Table 56 below indicates projected wastewater bills for Residential Inside City customers with a 5/8" meter.

TABLE 56: PROJECTED RESIDENTIAL WASTEWATER BILLS

RATE IMPACT 5/8" Customer	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Monthly Usage (CCF)												
1	$ 36.00	$ 39.65	$ 42.40	$ 45.40	$ 47.44	$ 48.39	$ 49.36	$ 50.34	$ 51.35	$ 52.38	$ 53.42	$ 54.49
2	$ 41.60	$ 44.82	$ 47.96	$ 51.31	$ 53.62	$ 54.70	$ 55.79	$ 56.90	$ 58.04	$ 59.20	$ 60.39	$ 61.60
3	$ 46.40	$ 49.99	$ 53.49	$ 57.23	$ 59.81	$ 61.00	$ 62.22	$ 63.47	$ 64.74	$ 66.03	$ 67.35	$ 68.70
4	$ 51.20	$ 55.16	$ 59.02	$ 63.15	$ 65.99	$ 67.31	$ 68.66	$ 70.03	$ 71.43	$ 72.86	$ 74.31	$ 75.80
5	$ 56.00	$ 60.32	$ 64.55	$ 69.06	$ 72.17	$ 73.62	$ 75.09	$ 76.59	$ 78.12	$ 79.68	$ 81.28	$ 82.90
6	$ 60.80	$ 65.49	$ 70.08	$ 74.98	$ 78.35	$ 79.92	$ 81.52	$ 83.15	$ 84.81	$ 86.51	$ 88.24	$ 90.01
7	$ 65.60	$ 70.66	$ 75.61	$ 80.90	$ 84.54	$ 86.23	$ 87.95	$ 89.71	$ 91.51	$ 93.34	$ 95.20	$ 97.11
8	$ 70.40	$ 75.83	$ 81.14	$ 86.81	$ 90.72	$ 92.54	$ 94.39	$ 96.27	$ 98.20	$ 100.16	$ 102.17	$ 104.21
9	$ 75.20	$ 81.00	$ 86.67	$ 92.73	$ 96.90	$ 98.84	$ 100.82	$ 102.84	$ 104.89	$ 106.99	$ 109.13	$ 111.31
10	$ 80.00	$ 86.16	$ 92.20	$ 98.65	$ 103.08	$ 105.15	$ 107.25	$ 109.40	$ 111.59	$ 113.82	$ 116.09	$ 118.42

6. DISCUSSION OF BEST MANAGEMENT PRACTICES (BMP)

We reviewed the City's water and wastewater utility performance in relation to Best Management Practices that have been published by Fitch Ratings ("Fitch"). These criteria are used by Fitch when reviewing the performance of a utility as part of the bond rating process.

6.1 FINANCIAL PROFILE

"Long term integrated financial forecasting that considers future demand, expected rate increases, regulations, and infrastructure renovation and renewal needs."

In general, the City's practices are consistent with this BMP. This report includes ten year comprehensive financial plans for both the water and wastewater utilities. These were developed in collaboration with City staff and reflect the rate revenue increases necessary to adequately fund operation and maintenance expenditures, make necessary capital improvements and ensure fiscal sustainability for each utility on a going forward basis. In addition to these general objectives, the water utility financial plans reflect the transition from DWSD to the KWA, which is expected to lower the level of future rate increases and afford the City greater control over the water utility's operating costs.

"Policies ensure appropriate financial margins, including debt service coverage and operating liquidity levels."

In general the City is taking steps to improve consistency with this BMP. The aforementioned water and wastewater utility financial plans move the City towards an operating reserve target of 90 days of O&M and debt service. These reserves are critical to mitigate the risk inherent in operating a seasonal enterprise. That said, it is also importance to recognize the sensitivity of ratepayers to further increases, especially given the relatively high level of existing rates. Consequently, the City has decided to work up to the 90 day target over the next few fiscal years to mitigate the potential rate impact.

Coverage of existing water utility debt service is quite strong. This stems primarily from the fact that, given the City's past financial difficulties, it has limited access to capital markets for the purpose of funding its capital improvements. At this time, all major capital improvements are forecast to be made out of current rate revenues. If this policy is maintained throughout the forecast period, water utility debt service coverage will likely continue to improve. In the future the City may choose to leverage its water revenues via the Michigan Drinking Water Revolving Revenue Fund, which would spread the rate impact of the forecast capital improvements. Currently, the City does not have any outstanding wastewater debt.

"Regular financial reporting and monitoring systems enable policymaker's access to timely information on fiscal performance relative to the budget."

It is our understanding that the City's reporting systems are consistent with this BMP.

"Limited exposure to growth sensitive revenues, such as tap, connection, or impact fees."

The City's practices are consistent with this BMP. The City currently receives little to no revenue from growth related fees, mostly due to the fact that customer account growth has largely been negative or flat in recent years. Consequently the City is not overly reliant on such fees. However, if customer account growth becomes positive in the future, the City should consider implementing growth related fees to ensure that new customers are adequately compensating existing customers for their investment in the water and wastewater systems.
"Collection policies that regularly track the rate of timely payment receipts and enforce penalties against late payers or terminate service for non-payment."

The City has taken steps to improve consistency with this BMP. In recent years, account delinquency and non-payment has become a significant problem for the City. In addition, City staff has cited issues regarding potential water theft. Given these challenges, the City has engaged a consulting firm to aid in the analysis of their customer information system data, in an effort to recover the lost revenue associated with these issues. This is a critical in that it ensures paying customers are not bearing the burden of water theft going forward.

"Willingness of political leaders to adjust rates when necessary."

The City's practices are consistent with this BMP. Emergency Manager Darnell Early has the authority to raise rates as necessary to ensure the ongoing financial sustainability of the water and wastewater utilities. It is our understanding however, that input from political stakeholders will continue to be part of that City's rate adjustment process going forward.

"Limited exposure to financial operations of the general government, so that system revenues can be relied upon for use to operate and improve the utility. For transfers to the general fund policies that specifically limit their scope and growth are favorable."

The City is taking steps to improve consistency with this BMP. It is our understanding that approximately $10 million is due from the City's general fund to the water and wastewater utilities. A potential course of action would be to reduce the amount of administrative fees the water and wastewater utilities pay each year to the general fund, until the amount owed is paid back in full. Regardless of the method, the City has indicated that, as a worst case scenario, the general fund would repay the amount owed to the water and wastewater utilities by FY 2019.

"Compliance with industry accounting practices and establishment of appropriate internal controls."

It is our understanding that the City's accounting practices adhere to the generally accepted accounting practices ("GAAP") set forth by the Governmental Accounting Standards Board ("GASB").

"Rate affordability guidelines that consider absolute levels of rates and their affordability relative to income levels."

The City is working to improve consistency with this BMP. Affordability is a critical consideration for the City especially given the relatively high level of existing rates. As mentioned above, a key component of this study involved analyzing the impact of transitioning from DWSD to the KWA, a policy which should generate savings to ratepayers in lieu of what would have happened had the City continued to purchase water from DWSD.

6.2 DEBT PROFILE RELATED

"Prioritized capital improvement plans that cover at least five years and consider capacity, supply, regulatory and replacement and renewal needs."

The City's practices are consistent with this BMP. The City has provided five year capital improvements plans for the water and wastewater utilities as well as guidance for forecasting beyond that period, both of which have been incorporates into the water and wastewater financial plans. Based on our experience with utility operations and an examination of the provided plans, it is our opinion that the City is working to address capacity, supply and regulatory issues.

"Debt issuance policies including types, terms, and suitability under specific conditions, as well as the amount of variable-rate debt deemed appropriate."

Currently the City's wastewater utility has no debt and the level of water utility relatively modest. Though the debt associated with the joining KWA will increase this amount in the coming years, it will not reach unsustainable levels.

"Development of comprehensive policies on the use of hedge agreements and their disclosure prior to entering into any such agreements."

The water and wastewater utilities are not currently party to any such agreements and there are no plans to utilize such agreements in the future.

6.3 OPERATING PROFILE RELATED

"Key management industry experience and active participation in organizations that keep pace with sector issues, regulatory mandates and technological advances."

The City's practices are consistent with BMP in this regard.

"Use of professional engineers, either within the utility or outside of it, to prepare objective reviews of system performance and needs on regular basis and provide periodic revisions to construction cost estimates."

The City's practices are consistent with BMP in this regard.

"Regular consultation with regional and local growth planners, community development officials, and demographers to predict and, if possible, limit infrastructure needs related to population and business growth."

The City has been very active in such activities in recent years, as evidenced by their participation in the KWA effort to secure a more economical source of water to better meet the City's needs in the future.

APPENDICES

APPENDIX A: ALTERNATIVE WATER VOLUMETRIC RATES

	% Allocation of Costs to Blocks			Allocation of Cost Components to Blocks			Test Year	VD Differential			Block Rate Calculations				
	Base Demand Units	Max Day Extra Capacity	Max Hour Extra Capacity	Base Demand Units	Max Day Extra Capacity	Max Hour Extra Capacity	Test Year Consumption by Block CCF	Test Year Differential Times Inside City	Test Year Adjusted Consumption CCF	Test Year Compute Consumption CCF	Test Year Proposed Steepness	Existing Rates	Test Year FY 2015 Proposed Block Rates	Difference $	Difference %
RATE DESIGN BY CUSTOMER CLASS															
Inside City Residential															
Inside City Block 1	100%	55%	60%	$ 1,806,619	$ 1,458,474	$ 306,545	1,625,512	1.300	1,625,913	1,606,755	1.30	$ 7.62	$ 6.50	$ (1.02)	-14%
Inside City Block 2		15%	5%	$ -	$ 1,311,966	$ 30,654	88,696	1.300	88,599	89,324	1.25	$ 7.31	$ 6.25	$ (1.06)	-15%
Inside City Block 3	0%	0%	45%	$ -	$ -	$ 275,890	31,823	1.300	31,823	31,823	1.30	$ 6.79	$ 5.80	$ (0.99)	-14%
	100%	100%	100%	$ 1,806,619	$ 3,106,440	$ 613,089	1,146,030		1,746,335	1,727,903					
Outside City Residential															
Outside City Block 1	100%	55%	60%	$ 1,011	$ 46,606	$ 1,604	1,222	1.500	10,843		1.30	$ 11.26	$ 9.74	$ (1.51)	-13%
Outside City Block 2		15%	5%	$ -	$ 81,146	$ 169	604	1.500	1,625		1.25	$ 10.77	$ 9.37	$ (1.40)	-13%
Outside City Block 3	0%	0%	45%	$ -	$ -	$ 1,525	-	1.500	-		1.30	$ 8.68	$ 7.50	$ (1.18)	-14%
	100%	100%	100%	$ 1,011	$ 57,842	$ 3,789	61,826		12,468						
Total Residential															
Inside City Commercial/Industrial															
Inside City Block 1	100%	55%	60%	$ 3,966,409	$ 1,042,174	$ 27,192	1,702	1.300	111,702	1,650	1.30	$ 7.62	$ 9.91	$ 2.29	30%
Inside City Block 2		15%	5%	$ -	$ 1,242,731	$ 27,179	860,757	1.300	860,757	815,167	1.25	$ 7.31	$ 9.20	$ 1.89	26%
Inside City Block 3	0%	0%	45%	$ -	$ -	$ 250,813	51,759	1.300	511,781	511,322	1.30	$ 6.79	$ 8.85	$ 1.97	29%
	100%	100%	100%	$ 3,966,409	$ 3,201,511	$ 305,185	1,414,218		1,484,239	1,328,139					
Outside City Commercial/Industrial															
Outside City Block 1	100%	55%	60%	$ 68,646	$ 165,611	$ 5,937	3,296	1.500	4,943		1.30	$ 11.26	$ 14.35	$ 3.10	27%
Outside City Block 2		15%	5%	$ -	$ 29,220	$ 599	9,007	1.500	14,143		1.25	$ 10.77	$ 13.00	$ 3.04	28%
Outside City Block 3	0%	0%	45%	$ -	$ -	$ 5,338	13,561	1.500	20,342		1.30	$ 8.71	$ 11.04	$ 2.37	27%
	100%	100%	100%	$ 68,646	$ 194,843	$ 11,865	26,266		39,100						
Total Commercial/Industrial															
Inside City Lawn															
Inside City Block 1	100%	55%	60%	$ 25,129	$ 261,761	$ 7,113	6,804	1.300	6,804	6,504	1.30	$ 7.62	$ 27.01	$ 19.40	362%
Inside City Block 2		15%	5%	$ -	$ 44,628	$ 117	1,052	1.300	1,052	1,052	1.25	$ 7.31	$ 25.51	$ 18.06	350%
Inside City Block 3	0%	0%	45%	$ -	$ -	$ 6,402	-	1.300	-	-	1.30	$ 6.79	$ 20.77	$ 13.98	359%
Outside City Lawn															
Outside City Block 1	100%	55%	60%	$ -	$ -	$ -	-	1.500	-		1.30	$ 11.26	$ 40.61	$ 29.25	360%
Outside City Block 2		15%	5%	$ -	$ -	$ -	-	1.500	-		1.25	$ 10.77	$ 38.95	$ 28.19	362%
Outside City Block 3	0%	0%	45%	$ -	$ -	$ -	-	1.500	-		1.30	$ 8.71	$ 31.10	$ 22.40	358%
	100%	100%	100%	$ -	$ -	$ -	$ -		-						
Total Lawn															

APPENDIX B: ALTERNATIVE WASTEWATER VOLUMETRIC RATES

		Test Year Volumes					Test Year Rate Calculation			
	Composite Revenue Requirement	Test Year Billed Volumes CCF	Test Year Billed Volumes % Breakdown	Test Year Differential Times Inside City	Test Year Adjusted Consumption CCF	Test Year Composite Consumption CCF	Test Year Volumetric Rates $/CCF	Existing Volumetric Rates $/CCF	Difference $	Difference %
RATE DESIGN BY CUSTOMER CLASS										
Total Inside City Residential COS										
Total Inside City Residential COS Adjustment										
Total Inside City Residential	$ 5,509,020	1,576,666	52.06%	1.000	1,576,666	1,576,092	$ 3.49	4.3	$ (1.0')	-27%
Total Outside City Residential COS										
Total Outside City Residential COS Adjustmen:										
Total Outside City Residential		206	0.01%	1.100	226		$ 3.84	5.285	$ (1.44)	-27%
Total Inside City Commercial/Industrial COS										
Total Inside City Commercial/Industria COS Adjustment										
Total Inside City Commercial/Industria	$ 9,908,586	1,398,721	46.90%	1.000	1,398,721	1,406,434	$ 7.05	4.8	$ 2.25	47%
Total Outside City Commercial/Industrial COS										
Total Outside City Commercial/Industrial COS Adjustment										
Total Outside City Commercial/Industrial		7,012	0.24%	1.100	7,713		$ 7.76	5.295	$ 2.46	47%

From: Muchmore, Dennis (GOV)
Sent: Wednesday, February 11, 2015 3:50 PM
To: Muchmore, Dennis (GOV)
Subject: Fwd: Flint water
Attachments: Flint Rate Study Report Final Draft v6.docx

>
> Subject: Re: FW: Flint water
>
> We followed the recommendations of the RFC rate study. Their recommendations encompassed the knowledge of leaving DWSD, as well as the impending increase in costs associated with KWA once connected (City share of debt service), and the need for significant reinvestment in the utility system infrastructure, and a desire to level out future rate increases.
>
> Copy of the RFC study attached.
>
> Jerry
>
>
>
>
>

RAFTELIS
FINANCIAL CONSULTANTS, INC.

CITY OF FLINT

Water and Wastewater Rate Study

Final Report |June 19, 2014

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1. EXECUTIVE SUMMARY

1.1 BACKGROUND OF THE STUDY

On November of 2013, the City of Flint ("City") engaged Raftelis Financial Consultants ("RFC") to perform water and wastewater utility rate studies. The scope of services included the following:

- Evaluate the adequacy of existing water and wastewater revenues to meet each utility's projected revenue requirements
- Develop comprehensive water and wastewater financial plans based on sound financial management practices for a 10 year forecast period
- Determine water and wastewater rates which adequately recover the cost of operating the water and wastewater utilities under the existing rate structures and provide alternatives based on a comprehensive cost of service study
- Analyze the impact of transitioning from the use of purchased potable water from the Detroit Water and Sewerage District ("DWSD") to the treatment of raw water from the Karegnondi Water Authority ("KWA").
- Review the City's water and wastewater operations in comparison to Best Management Practices criteria.

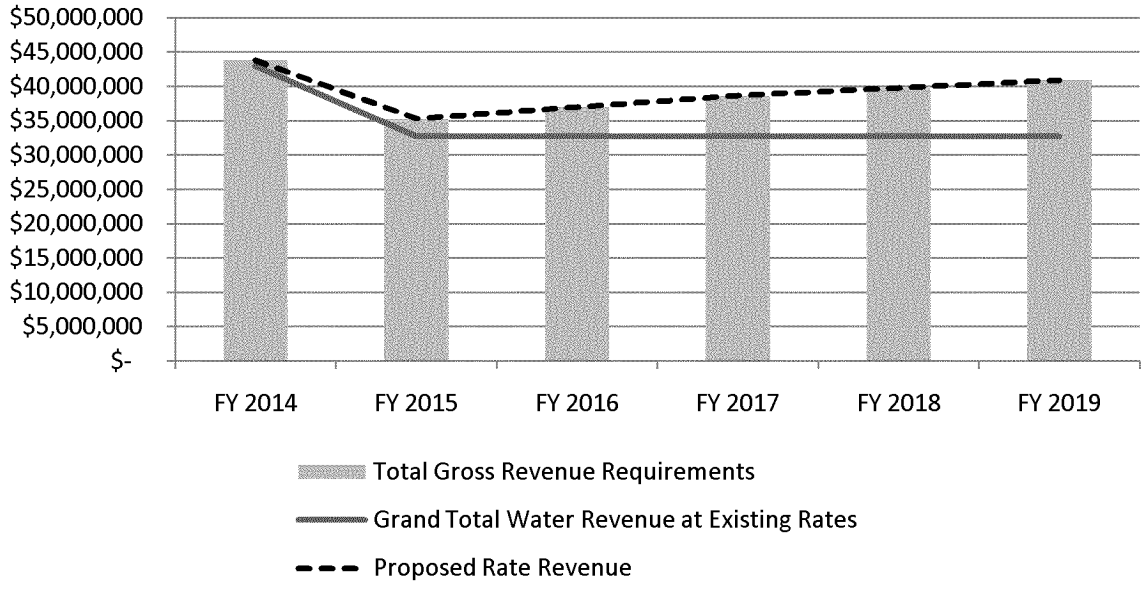
1.2 ADEQUACY OF EXISTING WATER AND WASTEWATER REVENUES

Charts ES-1 and 2 below summarize our conclusions with respect to the adequacy of water and wastewater revenue at existing rates. As the charts indicate, beginning in FY 2015, water and wastewater utility revenues are insufficient to recover each utility's revenue requirement. Key drivers of this disparity are:

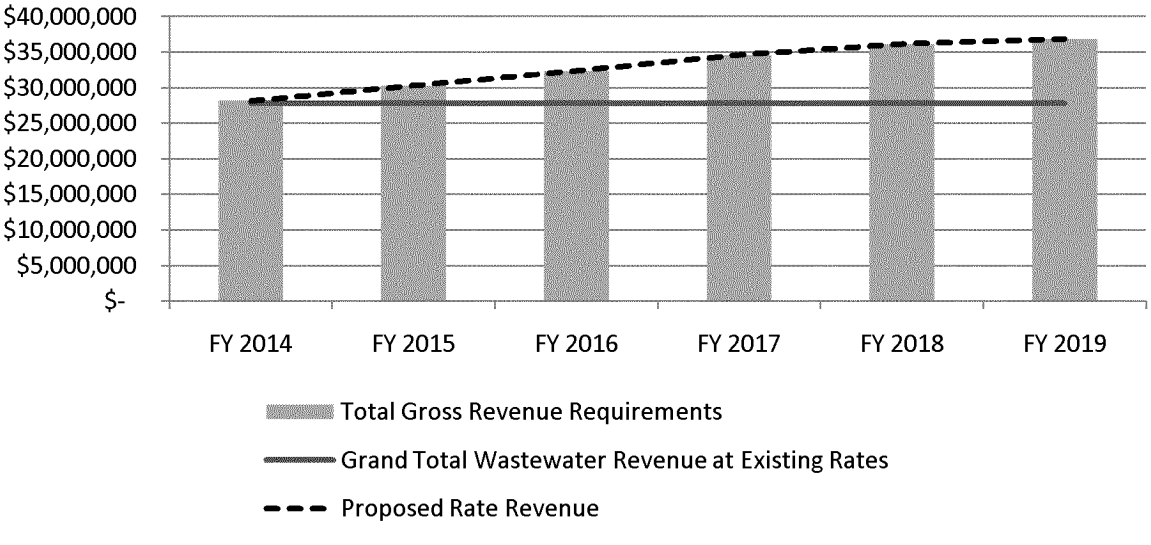
- A marked decrease in billed usage, the cause of which is currently being evaluated by RFC under a separate contract.
- A normal pattern of declining per customer usage for both utilities overall due to conservation, efficient appliances, etc.
- Increases in utility revenue requirements associated with the financial plans including operating cost inflation, capital improvements and policies which support the sound financial management of each utility in accordance with best management practices.

Consequently, the proposed increases in rate revenue are necessary to ensure each utility can adequately fund its operation and maintenance expenditures, make payments on existing debt service, provide funding for needed capital improvements and ensure adequate operating reserves.

ES-1: Water Utility Revenues at Existing Rates



ES-2: Wastewater Utility Revenues at Existing Rates



1.3 WATER AND WASTEWATER FINANCIAL PLANS

Tables ES-3 and ES-4 below summarize the proposed water and wastewater financial plans and rate revenue increases for the first 5 years of the forecast period.

The financial plans and proposed increased in rate revenues are driven by the following factors:

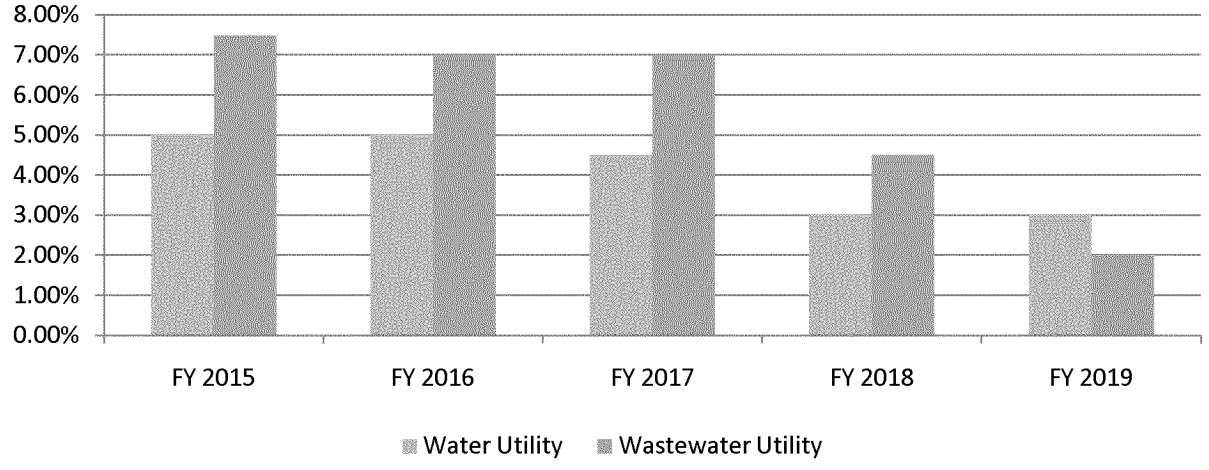
- Inflationary increases in O&M expenditures for both utilities
- For the water utility:
    - Decreases in revenues associated with the cessation of service to Genesee County
    - Decreases in O&M expenditures associated with an elimination of DWSD water purchases
    - Increases in O&M expenditures associated with transitioning from back-up to primary operation of the Flint WTP
    - Increases in capital expenditures associated with improvements to the Flint WTP in preparation for the treatment of raw water from KWA
    - Increases in debt service associated with Flint's share of projected KWA debt service
- Necessary cash funded recapitalization of wastewater utility assets
- A build-up, for each utility, of operating reserves equivalent to 90 days of projected O&M expenditures and debt service payments, the minimum, according to financial management practices ("BMP").

ES-3: SUMMARY OF WATER AND WASTEWATER FINANCIAL PLANS

Water Utility	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019
REVENUES						
Grand Total Water Revenue at Existing Rates	$ 42,974,374	$ 32,732,575	$ 32,762,575	$ 32,762,575	$ 32,762,575	$ 32,762,575
Additional Revenue from Rate Increases	$ -	$ 1,638,100	$ 3,358,100	$ 4,983,500	$ 6,115,900	$ 7,282,300
Total Non-Rate Revenues	$ 886,000	$ 913,314	$ 931,644	$ 927,686	$ 928,503	$ 929,131
Add Transfers in from General Fund	$ -	$ -	$ -	$ -	$ -	
Total Rate and Non-Rate Revenues	***$ 43,860,374***	***$ 35,313,989***	***$ 37,052,318***	***$ 38,673,761***	***$ 39,806,978***	***$ 40,974,006***
GROSS REVENUE REQUIREMENTS						
O&M	$ 36,865,206	$ 21,483,441	$ 22,140,012	$ 23,316,857	$ 23,999,504	$ 24,705,148
Capital	$ 9,747,946	$ 11,742,821	$ 11,246,423	$ 15,148,446	$ 15,644,008	$ 16,143,196
Transfer to Operating Reserve	$ (2,752,778)	$ 2,087,727	$ 3,665,883	$ (791,543)	$ 163,465	$ 125,662
Total Gross Revenue Requirements	***$ 43,860,374***	***$ 35,313,989***	***$ 37,052,318***	***$ 38,673,761***	***$ 39,806,978***	***$ 40,974,006***
DEFICIT (EXISTING REVENUES - REVENUE REQ.)	$ -	$ (1,638,100)	$ (3,358,100)	$ (4,983,500)	$ (6,115,900)	$ (7,282,300)

Wastewater Utility	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019
REVENUES						
Grand Total Wastewater Revenue at Existing Rates	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374
Additional Revenue from Rate Increases	$ -	$ 2,083,300	$ 4,173,500	$ 5,410,100	$ 7,948,500	$ 8,663,000
Total Non-Rate Revenues	$ 395,872	$ 423,562	$ 420,948	$ 426,058	$ 422,741	$ 439,354
Add Transfers in from General Fund	$ -	$ -	$ -	$ -	$ -	
Total Rate and Non-Rate Revenues	***$ 28,173,246***	***$ 30,284,237***	***$ 32,371,823***	***$ 34,613,532***	***$ 36,148,615***	***$ 36,879,728***
GROSS REVENUE REQUIREMENTS						
O&M	$ 24,323,627	$ 23,053,392	$ 23,394,671	$ 24,091,569	$ 24,812,101	$ 25,557,113
Capital	$ 5,500,000	$ 7,000,000	$ 9,500,000	$ 9,500,000	$ 12,000,000	$ 8,000,000
Transfer to Operating Reserve	$ (1,650,381)	$ 230,845	$ (522,848)	$ 1,021,963	$ (663,486)	$ 3,322,615
Total Gross Revenue Requirements	***$ 28,173,246***	***$ 30,284,237***	***$ 32,371,823***	***$ 34,613,532***	***$ 36,148,615***	***$ 36,879,728***
DEFICIT (EXISTING REVENUES - REVENUE REQ.)	$ -	$ (2,083,300)	$ (4,173,500)	$ (5,410,100)	$ (7,948,500)	$ (8,663,000)

ES-4: Annual % Rate Revenue Increases



As indicated in the previous section, water and wastewater utility revenues at existing rates are not adequate to recover the projected costs each utility will incur over the forecast period. Consequently additional rate revenue will be needed to ensure adequate recovery of each utility's revenue requirements.

1.4 COST OF SERVICE STUDY AND WATER AND WASTEWATER RATES

Table ES-5 below summarizes the results of the water and wastewater cost of service studies. The customer classes included are those which are recognized in the City's existing customer information system ("CIS"). While the City does not currently have either a water or wastewater rate structure which recognizes these customer classes, rates by customer class have been calculated and are included as appendices A and B to this report. The totals for each customer class represent the contribution of that class to the overall costs of each utility. This is based on the allocation processes described in sections 4 and 5 of this report.

Given the transition from KWA to DWSD the City will not be making any rate structure changes at this time. It is our opinion that the current water and wastewater rate structures are reasonable. The declining block water rates generally recognizing the fact that higher volume customers (i.e. large commercial and industrial) contribute less to peak demand, and overall water utility costs. Additionally, the relatively high proportion of fixed charge revenue recovery provides a less climatically variable revenue stream, which given that the majority of the utility's costs are fixed, is entirely appropriate.

ES-5: SUMMARY OF COST OF SERVICE STUDY RESULTS

CUSTOMER CLASS	WATER	WASTEWATER
Allocated Cost of Service		
Total Inside City Residential COS	$ 18,345,672	$ 16,412,799
Total Inside City Commercial/Industrial COS	$ 15,263,704	$ 13,378,697
Total Inside City Lawn COS	$ 370,646	N/A
Total Inside City COS	$ 33,980,022	$ 29,791,496
Total Outside City Residential COS	$ 99,483	$ 2,382
Total Outside City Commercial/Industrial COS	$ 321,169	$ 66,796
Total Outside City Lawn COS	$ -	N/A
Total Outside City COS	$ 420,653	$ 69,178
Total System Cost of Service	$ 34,400,675	$ 29,860,674

Tables ES-6 and ES-7 summarize the projected fixed and volumetric rates for the first 5 years of the forecast period, given financial plans and rate revenue increases proposed above. For every dollar of rate revenue generated by each utility approximately $.66 is derived from volumetric charges and $.34 is derived from fixed charges.

It is typical for water and wastewater utilities to design fixed charges which recover, at a minimum, the costs of meter reading, billing and collection and customer service. Additionally, fixed charges may also relate to fixed investment in utility assets associated with providing service which is available at all times regardless of usage levels by City customers. These costs, known as readiness to serve costs, have also been incorporated into the water and wastewater fixed charges.

Volumetric rates recover the variable costs associated with operating the water and wastewater utilities. For the water utility variable costs are associated with water treatment, transmission and distribution, pumping, and storage and are driven primarily by the design requirements associated with peak water usage. For the wastewater utility variable costs are associated with wastewater treatment, collection, and pumping, and are driven by the wastewater volume and strength.

ES-6: SUMMARY OF WATER AND WASTEWATER VOLUMETRIC RATES

Water Volumetric Rates

CUSTOMER CLASS	CONSUMPTION BLOCK	UNITS	FY 2014 Existing Block Rates	Test-Year FY 2015 Proposed Block Rates	Forecast FY 2016 Proposed Block Rates	Forecast FY 2017 Proposed Block Rates	Forecast FY 2018 Proposed Block Rates	Forecast FY 2019 Proposed Block Rates
Annual % Increase in Rate Revenues			**0.00%**	**5.00%**	**5.00%**	**4.50%**	**3.00%**	**3.00%**
Total Inside City All Classes								
Inside City Block 1	0-35 CCF	($/CCF)	$ 7.52	$ 7.92	$ 8.32	$ 8.69	$ 8.95	$ 9.22
Inside City Block 2	36-2000 CCF	($/CCF)	$ 7.31	$ 7.62	$ 8.00	$ 8.36	$ 8.61	$ 8.87
Inside City Block 3	above 2000 CCF	($/CCF)	$ 5.79	$ 6.09	$ 6.40	$ 6.69	$ 6.89	$ 7.09
Total Outside City All Classes								
Outside City Block 1	0-35 CCF	($/CCF)	$ 11.26	$ 11.88	$ 12.48	$ 13.04	$ 13.43	$ 13.83
Outside City Block 2	36-2000 CCF	($/CCF)	$ 10.77	$ 11.42	$ 12.00	$ 12.54	$ 12.91	$ 13.30
Outside City Block 3	above 2000 CCF	($/CCF)	$ 8.68	$ 9.14	$ 9.60	$ 10.03	$ 10.33	$ 10.64

Wastewater Volumetric Rates

CUSTOMER CLASS	UNITS	FY 2014 Existing Rates	Test-Year FY 2015 Proposed Rates	Forecast FY 2016 Proposed Rates	Forecast FY 2017 Proposed Rates	Forecast FY 2018 Proposed Rates	Forecast FY 2019 Proposed Rates
Annual % Increase in Rate Revenues		**0.00%**	**7.50%**	**7.00%**	**7.00%**	**4.50%**	**2.00%**
Total Inside City All Classes	($/CCF)	$ 4.80	$ 5.17	$ 5.53	$ 5.92	$ 6.18	$ 6.31
Total Outside City All Classes	($/CCF)	$ 5.29	$ 5.68	$ 6.08	$ 6.51	$ 6.80	$ 6.94

ES-7: SUMMARY OF WATER AND WASTEWATER FIXED CHARGES

	WATER FIXED CHARGES						WASTEWATER FIXED CHARGES					
CUSTOMER CLASS	FY 2014 Existing Charge	Test-Year FY 2015 Proposed Charge	Forecast FY 2016 Proposed Charge	Forecast FY 2017 Proposed Charge	Forecast FY 2018 Proposed Charge	Forecast FY 2019 Proposed Charge	FY 2014 Existing Charge	Test-Year FY 2015 Proposed Charge	Forecast FY 2016 Proposed Charge	Forecast FY 2017 Proposed Charge	Forecast FY 2018 Proposed Charge	Forecast FY 2019 Proposed Charge
Inside City Residential												
5/8"	$ 21.78	$ 22.90	$ 24.05	$ 25.13	$ 25.89	$ 26.66	$ 32.00	$ 34.48	$ 36.90	$ 39.48	$ 41.26	$ 42.08
3/4"	$ 41.86	$ 44.03	$ 46.23	$ 48.31	$ 49.76	$ 51.25	$ 46.92	$ 50.56	$ 54.10	$ 57.89	$ 60.49	$ 61.70
1"	$ 55.28	$ 58.15	$ 61.05	$ 63.80	$ 65.72	$ 67.69	$ 65.34	$ 70.41	$ 75.33	$ 80.61	$ 84.24	$ 85.92
1-1/2"	$ 55.28	$ 58.15	$ 61.05	$ 63.80	$ 65.72	$ 67.69	$ 65.34	$ 70.41	$ 75.33	$ 80.61	$ 84.24	$ 85.92
2"	$ 55.28	$ 58.15	$ 61.05	$ 63.80	$ 65.72	$ 67.69	$ 65.34	$ 70.41	$ 75.33	$ 80.61	$ 84.24	$ 85.92
Inside City Commercial												
5/8"	$ 53.39	$ 55.79	$ 58.58	$ 61.21	$ 63.05	$ 64.94	$ 51.92	$ 55.90	$ 59.81	$ 64.00	$ 66.88	$ 68.21
3/4"	$ 61.26	$ 64.02	$ 67.22	$ 70.25	$ 72.35	$ 74.52	$ 64.43	$ 69.37	$ 74.23	$ 79.42	$ 83.00	$ 84.66
1"	$ 75.10	$ 78.48	$ 82.41	$ 86.11	$ 88.70	$ 91.36	$ 84.71	$ 91.20	$ 97.58	$ 104.41	$ 109.11	$ 111.29
1-1/2"	$ 107.76	$ 112.60	$ 118.23	$ 123.56	$ 127.26	$ 131.08	$ 137.84	$ 148.40	$ 158.79	$ 169.91	$ 177.55	$ 181.10
2"	$ 150.62	$ 157.40	$ 165.27	$ 172.71	$ 177.89	$ 183.22	$ 196.16	$ 211.19	$ 225.97	$ 241.79	$ 252.67	$ 257.73
3"	$ 297.45	$ 310.83	$ 326.37	$ 341.06	$ 351.29	$ 361.83	$ 438.06	$ 471.62	$ 504.64	$ 539.96	$ 564.26	$ 575.55
4"	$ 523.50	$ 547.05	$ 574.40	$ 600.25	$ 618.26	$ 636.81	$ 721.84	$ 777.14	$ 831.54	$ 889.75	$ 929.79	$ 948.39
6"	$ 1,029.43	$ 1,075.75	$ 1,129.54	$ 1,180.37	$ 1,215.78	$ 1,252.25	$ 1,459.95	$ 1,571.80	$ 1,681.82	$ 1,799.55	$ 1,880.53	$ 1,918.14
8"	$ 1,492.88	$ 1,560.05	$ 1,638.05	$ 1,711.77	$ 1,763.12	$ 1,816.01	$ 2,148.21	$ 2,312.79	$ 2,474.68	$ 2,647.91	$ 2,767.07	$ 2,822.41
10"	$ 2,060.75	$ 2,153.48	$ 2,261.16	$ 2,362.91	$ 2,433.80	$ 2,506.81	$ 2,918.39	$ 3,141.97	$ 3,361.91	$ 3,597.24	$ 3,759.12	$ 3,834.30
12"	$ 2,493.12	$ 2,605.31	$ 2,735.57	$ 2,858.67	$ 2,944.43	$ 3,032.77	$ 3,426.23	$ 3,688.72	$ 3,946.93	$ 4,223.22	$ 4,413.26	$ 4,501.52
16"	$ 3,102.64	$ 3,242.25	$ 3,404.36	$ 3,557.56	$ 3,664.28	$ 3,774.21	$ 4,523.95	$ 4,870.53	$ 5,211.47	$ 5,576.27	$ 5,827.20	$ 5,943.74
20"	$ 3,351.18	$ 3,501.98	$ 3,677.08	$ 3,842.54	$ 3,957.82	$ 4,076.56	$ 5,326.87	$ 5,734.98	$ 6,136.41	$ 6,565.96	$ 6,861.42	$ 6,998.65
Outside City Residential												
5/8"	$ 32.48	$ 34.17	$ 35.87	$ 37.49	$ 38.61	$ 39.77	$ 41.01	$ 44.19	$ 47.28	$ 50.59	$ 52.87	$ 53.93
3/4"	$ 62.71	$ 65.95	$ 69.25	$ 72.37	$ 74.54	$ 76.78	$ 56.01	$ 60.35	$ 64.57	$ 69.09	$ 72.20	$ 73.64
1"	$ 82.79	$ 87.08	$ 91.43	$ 95.55	$ 98.42	$ 101.37	$ 76.99	$ 82.96	$ 88.76	$ 94.98	$ 99.25	$ 101.23
1-1/2"	$ 82.79	$ 87.08	$ 91.43	$ 95.55	$ 98.42	$ 101.37	$ 76.99	$ 82.96	$ 88.76	$ 94.98	$ 99.25	$ 101.23
2"	$ 82.79	$ 87.08	$ 91.43	$ 95.55	$ 98.42	$ 101.37	$ 76.99	$ 82.96	$ 88.76	$ 94.98	$ 99.25	$ 101.23
Outside City Commercial												
5/8"	$ 80.13	$ 83.74	$ 87.93	$ 91.88	$ 94.64	$ 97.48	$ 58.12	$ 62.57	$ 66.95	$ 71.64	$ 74.86	$ 76.36
3/4"	$ 91.72	$ 95.84	$ 100.63	$ 105.16	$ 108.32	$ 111.57	$ 73.62	$ 79.26	$ 84.81	$ 90.75	$ 94.83	$ 96.73
1"	$ 112.67	$ 117.74	$ 123.63	$ 129.19	$ 133.07	$ 137.06	$ 98.05	$ 105.56	$ 112.95	$ 120.86	$ 126.30	$ 128.82
1-1/2"	$ 161.79	$ 169.06	$ 177.52	$ 185.51	$ 191.07	$ 196.80	$ 164.80	$ 177.43	$ 189.85	$ 203.14	$ 212.28	$ 216.52
2"	$ 226.09	$ 236.26	$ 248.07	$ 259.24	$ 267.01	$ 275.02	$ 232.43	$ 250.24	$ 267.76	$ 286.50	$ 299.39	$ 305.38
3"	$ 448.47	$ 468.65	$ 492.08	$ 514.23	$ 529.65	$ 545.54	$ 522.87	$ 562.93	$ 602.33	$ 644.49	$ 673.50	$ 686.97
4"	$ 785.37	$ 820.71	$ 861.74	$ 900.52	$ 927.53	$ 955.36	$ 886.01	$ 953.89	$ 1,020.66	$ 1,092.10	$ 1,141.25	$ 1,164.07
6"	$ 1,543.87	$ 1,613.34	$ 1,694.00	$ 1,770.23	$ 1,823.34	$ 1,878.04	$ 1,770.13	$ 1,905.74	$ 2,039.14	$ 2,181.88	$ 2,280.07	$ 2,325.67
8"	$ 2,239.47	$ 2,340.24	$ 2,457.26	$ 2,567.83	$ 2,644.87	$ 2,724.21	$ 2,646.52	$ 2,849.27	$ 3,048.72	$ 3,262.13	$ 3,408.93	$ 3,477.11
10"	$ 3,107.48	$ 3,247.30	$ 3,409.67	$ 3,563.10	$ 3,670.00	$ 3,780.10	$ 3,522.54	$ 3,792.41	$ 4,057.88	$ 4,341.93	$ 4,537.31	$ 4,628.06
12"	$ 3,739.51	$ 3,907.77	$ 4,103.16	$ 4,287.80	$ 4,416.44	$ 4,548.93	$ 4,132.57	$ 4,449.17	$ 4,760.62	$ 5,093.86	$ 5,323.08	$ 5,429.54
16"	$ 4,653.87	$ 4,863.28	$ 5,106.44	$ 5,336.23	$ 5,496.32	$ 5,661.21	$ 5,497.91	$ 5,919.11	$ 6,333.45	$ 6,776.79	$ 7,081.75	$ 7,223.38
20"	$ 5,463.82	$ 5,709.67	$ 5,995.16	$ 6,264.94	$ 6,452.89	$ 6,646.48	$ 6,532.02	$ 7,032.44	$ 7,524.72	$ 8,051.45	$ 8,413.76	$ 8,582.04

1.5 TRANSITION FROM DWSD TO KWA

A key aspect of this study involved analyzing the impact of the anticipated April 1, 2014 transition from the Detroit Water and Sewerage District ("DWSD") to the Karegnondi Water Authority ("KWA"). The expectation is that the transition will strengthen the water utility's financial position going forward, by affording the City greater control over its operating and capital costs. As part of this engagement the City asked RFC to estimate the potential savings to a typical Flint customer as a result of transitioning from DWSD to the KWA.

A summary of the potential savings, based on an alternative water financial planning scenario is summarized in Table ES-8 below. For example, a City customer using 5 CCF per month would see a combined monthly bill of approximately $122.83 under the KWA. This is based on a 5% water rate increase over existing rates. That same customer, should the City continue receiving service from DWSD, is estimated to have a bill of approximately $127.70. This represents estimated 13% water rate increase over existing rates. Consequently, the savings to the typical City is approximately $4.87 per month, or $58.44 per year. Finally, note that the cumulative water rate increase over the next 5 years is estimated to be 18% under the KWA and 41% under DWSD.

ES-8: POTENTIAL RESIDENTIAL BILL SAVINGS (KWA VS. DWSD)

Cumulative Increase KWA (Water Rates)	**0%**	**5%**	**10%**	**15%**	**19%**	**22%**
Additional With DWSD (Water Rates)	**0%**	**9%**	**19%**	**20%**	**21%**	**21%**
Total Under DWSD	**0%**	**14%**	**29%**	**35%**	**39%**	**44%**

RATE IMPACT 5/8" Customer	**FY 2014**	**FY 2015**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**
Monthly Usage (CCF)						
1	$ 66.10	$ 70.48	$ 74.79	$ 79.22	$ 82.28	$ 84.27
2	$ 78.41	$ 83.57	$ 88.64	$ 93.83	$ 97.41	$ 99.80
3	$ 90.73	$ 96.66	$ 102.49	$ 108.44	$ 112.55	$ 115.33
4	$ 103.05	$ 109.74	$ 116.33	$ 123.05	$ 127.68	$ 130.85
5	$ 115.37	$ 122.83	$ 130.18	$ 137.65	$ 142.82	$ 146.38
6	$ 127.69	$ 135.92	$ 144.03	$ 152.26	$ 157.95	$ 161.91
7	$ 140.00	$ 149.01	$ 157.88	$ 166.87	$ 173.09	$ 177.44
8	$ 152.32	$ 162.10	$ 171.72	$ 181.48	$ 188.23	$ 192.97
9	$ 164.64	$ 175.19	$ 185.57	$ 196.09	$ 203.36	$ 208.49
10	$ 176.96	$ 188.28	$ 199.42	$ 210.70	$ 218.50	$ 224.02

ESTIMATED MONTHLY SAVINGS	**FY 2014**	**FY 2015**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**
Monthly Usage (CCF)						
1	$ -	$ (2.42)	$ (5.37)	$ (5.80)	$ (5.98)	$ (6.15)
2	$ -	$ (3.04)	$ (6.74)	$ (7.28)	$ (7.50)	$ (7.72)
3	$ -	$ (3.65)	$ (8.11)	$ (8.76)	$ (9.02)	$ (9.29)
4	$ -	$ (4.26)	$ (9.47)	$ (10.23)	$ (10.54)	$ (10.86)
5	$ -	$ (4.87)	$ (10.84)	$ (11.71)	$ (12.06)	$ (12.42)
6	$ -	$ (5.48)	$ (12.21)	$ (13.19)	$ (13.58)	$ (13.99)
7	$ -	$ (6.09)	$ (13.58)	$ (14.67)	$ (15.11)	$ (15.56)
8	$ -	$ (6.71)	$ (14.94)	$ (16.14)	$ (16.63)	$ (17.13)
9	$ -	$ (7.32)	$ (16.31)	$ (17.62)	$ (18.15)	$ (18.69)
10	$ -	$ (7.93)	$ (17.68)	$ (19.10)	$ (19.67)	$ (20.26)

1.6 WATER AND WASTEWATER UTILITY OPERATIONS AND BEST MANAGEMENT PRACTICES

We reviewed the City's water and wastewater utility performance in relation to Best Management Practices ("BMP") that have been published by Fitch Ratings ("Fitch"). These criteria are used by Fitch when reviewing the performance of a utility as part of the bond rating process. Table ES-9 below summarizes our assessment of the City's water and wastewater utility operations with respect to BMP. The City's operations generally comport with BMP. The City is working to improve consistency in four areas: first, as mentioned above, the financial plans build-up to the minimum recommended 90 operating reserve and should achieve this reserve, all else equal, in the next 5 years. Second, the City is working with RFC, under a separate contract, to identify sources of lost water and wastewater revenue to improve the City's revenue collections, and reduce the cost of utility service theft to paying customers. Third, the City is currently determining arrangements whereby the general fund can repay its obligations to the water and wastewater utilities, ensuring the water and wastewater funds are not subsidizing general government operations going forward. Finally, the transition to KWA will allow the City greater control over its operating and capital costs, and as mentioned above, should result in more affordable rates than the alternative.

ES-9: FITCH BEST MANAGEMENT PRACTICES

Criteria	Consistent	Improving	Inconsistent
Financial Profile			
Financial Forecasting	✖		
Debt Service Coverage and Operating Reserves		✖	
Financial Reporting and Monitoring	✖		
Limited Exposure to Growth Revenues	✖		
Timely Collection of Payment and Penalty Enforcment		✖	
Political Willingness to Adjust Rates	✖		
Limited Exposure to General Govt. Finances		✖	
GAAP Compliance	✖		
Affordability		---------✖---------	
Debt Profile			
Prioritized Capital Improvement Plans	✖		
Debt Policy	✖		
Hedge Agreements			
Operating Profile			
Management Experience	✖		
Use of Professional Engineers	✖		
Consultation with Local/Regional Growth Planners	✖		

2. INTRODUCTION AND STUDY OBJECTIVES

2.1 INTRODUCTION

In November of 2013, the City of Flint ("City") engaged Raftelis Financial Consultants ("RFC") to perform water and wastewater utility rate studies. The need for engagement was precipitated by the City's transition from the use of purchased water from the Detroit Water and Sewerage District ("DWSD") to participation in the Karegnondi Water Authority ("KWA") on April 1, 2014. Following the transition, the City will treat raw water from the KWA at its existing water treatment plant, which is currently undergoing the improvements necessary to become the primary source of treated water for the City of Flint. The expectation is that the transition will strengthen the water utility's financial position going forward, affording the City greater control over its operating and capital costs as a result.

From a financial perspective, the following are a few notable aspects of the transition:

- Water Operation and Maintenance ("O&M") expenditures are projected to decrease significantly as the cost of purchasing water from DWSD ceases as of FY 2015,
- Water Capital costs are projected to increase as the City begins paying its share of the Karegnondi Water Authority's debt service and incurs the cost of the necessary water treatment plant improvements.
- Water utility revenues will decrease as the City's wholesale customer, Genesee County ("County"), will no longer be receiving water service from the City as a result of the transition
- Projected water increases under the KWA are projected to be lower than they would have been, had the City continued to purchase water from DWSD
- City of Flint residential customer water bills are projected to be lower under the KWA than if the City had continued to purchase water from DWSD (see Table 1 below).

TABLE 1: ESTIMATED RATE INCREASES (KWA VS. DWSD)

CUMULATIVE % RATE REVENUE INCREASE	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
KWA	0%	5%	10%	15%	19%	22%
DWSD	0%	14%	29%	35%	39%	44%
ESTIMATED MONTHLY SAVINGS	**FY 2014**	**FY 2015**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**
Monthly Usage (CCF)						
1	$ -	$ (2.42)	$ (5.37)	$ (5.80)	$ (5.98)	$ (6.15)
2	$ -	$ (3.04)	$ (6.74)	$ (7.28)	$ (7.50)	$ (7.72)
3	$ -	$ (3.65)	$ (8.11)	$ (8.76)	$ (9.02)	$ (9.29)
4	$ -	$ (4.26)	$ (9.47)	$ (10.23)	$ (10.54)	$ (10.86)
5	$ -	$ (4.87)	$ (10.84)	$ (11.71)	$ (12.06)	$ (12.42)
6	$ -	$ (5.48)	$ (12.21)	$ (13.19)	$ (13.58)	$ (13.99)
7	$ -	$ (6.09)	$ (13.58)	$ (14.67)	$ (15.11)	$ (15.56)
8	$ -	$ (6.71)	$ (14.94)	$ (16.14)	$ (16.63)	$ (17.13)
9	$ -	$ (7.32)	$ (16.31)	$ (17.62)	$ (18.15)	$ (18.69)
10	$ -	$ (7.93)	$ (17.68)	$ (19.10)	$ (19.67)	$ (20.26)

2.2 RATE STUDY OBJECTIVES

The objectives of this study are as follows:

- Evaluate the adequacy of existing water and wastewater revenues to meet the projected revenue requirements
- Develop comprehensive water and wastewater financial plans based on sound financial management practices for a 10 year forecast period
- Determine water and wastewater rates which adequately recover the cost of operating the water and wastewater utilities under the existing rate structures and provide alternatives based on a comprehensive cost of service study
- Evaluate the City's current financial position and adjust the comprehensive financial plans for both the mid-year transition to the KWA and going forward.

3. WATER AND WASTEWATER UTILITY FINANCIAL PLANS

3.1 THE FINANCIAL PLANNING PROCESS

The general objective of the financial planning process is to arrive at the level of water and wastewater rate revenue required to ensure the financial sustainability of each utility on a going forward basis. This revenue requirement is then distributed to each customer class as part of the cost of service study.

For this study financial plans were developed for the current fiscal year, the test year and a ten-year forecast period. The current year is typically the year in which the study occurs, in this case fiscal year 2014 ("FY 2014"), or the year ending July 30, 2014. For the current year the financial plans represent an estimate, for each utility, of year-end financial position.

This serves as the basis for the test year financial plan. For this study, the test year is the following fiscal year, FY 2015. While the current year serves as an estimate of each utility's current financial position, the test year represents a projection of utility revenues, expenditures and operating reserve levels. The ten-year forecast period allows the City to evaluate trends over time and evaluate the impact of challenges that occur beyond the test year. For the purposes of this study separate financial plans were developed for each utility to ensure that each would be self-sustaining.

The following steps are necessary to arrive at the test year revenue requirement for each utility:

- Forecast customer units of service and revenue at existing water and wastewater rates
- Forecast operation and maintenance expenditures ("O&M") for each utility
- Forecast capital expenditures, including the payment of existing water and wastewater debt service and the financing of planned capital improvements
- Develop detailed cash flow forecasts summarizing planned O&M and capital expenditures, recommended rate revenue increases and operating reserve levels

3.2 WATER UTILITY FINANCIAL PLAN

3.2.1 Forecast Water Units of Service and Revenue at Existing Rates

Water Utility Rates

The City recovers the cost of operating the water utility via volumetric rates (rates based on the amount of water used) and fixed monthly service charges (a charge per customer bill). The City's existing water volumetric charge is a declining block rate, or a rate that decreases on a per unit basis as the amount of water consumed increases. The existing water volumetric rate structure is shown in Table 2 below:

TABLE 2: EXISTING WATER VOLUMETRIC RATES

CUSTOMER CLASS	CONSUMPTION BLOCK	UNITS	FY 2014 Existing Block Rates
Total Inside City All Classes			
Inside City Block 1	0-35 CCF	($/CCF)	$ 7.52
Inside City Block 2	36-2000 CCF	($/CCF)	$ 7.31
Inside City Block 3	above 2000 CCF	($/CCF)	$ 5.79
Total Outside City All Classes			
Outside City Block 1	0-35 CCF	($/CCF)	$ 11.26
Outside City Block 2	36-2000 CCF	($/CCF)	$ 10.77
Outside City Block 3	above 2000 CCF	($/CCF)	$ 8.68

A distinction is made between customers residing within in the City of Flint, and those who receive City water service, but do not reside within the City. As Table 2 indicates, outside city volumetric rates are approximately 150% of inside city volumetric rates. This is a common policy for municipal water utilities and recognizes inside city customers as "owners" of the utility, who should be compensated for the risk of investing in and maintaining their utility system.

In addition to the volumetric rates, the existing water rate structure includes a fixed service charge which varies by customer water meter size. The rates are charged per customer bill and are shown in Table 3 on the following page.

TABLE 3: EXISTING WATER FIXED CHARGES

CUSTOMER CLASS	FY 2014 Proposed Fixed Charge
Inside City Residential Customers	
5/8"	$ 21.78
3/4"	$ 41.86
1"	$ 55.20
1-1/2"	$ 55.28
2"	$ 55.28
Inside City Commercial/Industrial Customers	
5/8"	$ 53.39
3/4"	$ 81.26
1"	$ 75.10
1-1/2"	$ 107.76
2"	$ 150.62
3"	$ 297.45
4"	$ 523.50
6"	$ 1,029.43
8"	$ 1,492.88
10"	$ 2,060.75
12"	$ 2,493.12
16"	$ 3,102.64
20"	$ 3,351.10
Outside City Residential Customers	
5/8"	$ 32.48
3/4"	$ 62.71
1"	$ 82.79
1-1/2"	$ 82.79
2"	$ 82.79
Outside City Commercial/Industrial Customers	
5/8"	$ 80.13
3/4"	$ 91.72
1"	$ 112.67
1-1/2"	$ 161.79
2"	$ 226.09
3"	$ 448.47
4"	$ 785.37
6"	$ 1,543.87
8"	$ 2,239.47
10"	$ 3,107.48
12"	$ 3,739.51
16"	$ 4,653.87
20"	$ 5,463.82

Most Flint residential customers have a 5/8" meter and currently pay the $21.78 fixed monthly service charge. For the monthly fixed charge the same distinction is made between inside and outside city customers, with the outside city charge set at approximately 150% of the inside city

charge. Additionally, the current fixed charge structure further distinguishes between residential commercial customers.

In addition to the retail rates discussed above, the City currently serves a wholesale water customer, Genesee County. Genesee County pays a commodity charge of $346,863, a fixed monthly service charge of $114,000 and a volumetric rate of $1.30 per CCF. As mentioned above, as of April 1, 2014, the County will no longer be a customer of the City.

Forecast Water Units of Service

In order to forecast the level of revenue under existing water rates, the number of water accounts at each meter size and the level of water consumption in each consumption block must be estimated for the forecast period.

The number of accounts at each meter size was determined by dividing the number of annual bills at each meter size by the 12 monthly billing periods. The number of historical and forecast water utility customer accounts, by meter size, is indicated in Tables 4 and 5 on the following two pages. Note that the historical data appear to indicate a 14% increase in inside city accounts and a 27% increase in outside city accounts from FY 2012 to FY 2013. This increase in accounts does not appear to have been sustained into FY 2014. The City has indicated that water and wastewater billings have decreased approximately 12% from FY 2013 to FY 2014 year to date. Given this change and for the sake of developing a conservative estimate we have adjusted the forecast level of water accounts to 13% below their FY 2013 level. As no significant growth in the City's customer base is expected, no growth in water utility accounts has been projected over the forecast period.

TABLE 4: FORECAST INSIDE CITY WATER ACCOUNTS

Customer Class	Historical FY 2012	Historical FY 2013	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Inside City Residential														
5/8"	25,003	28,460	24,777	24,777	24,777	24,777	24,777	24,777	24,777	24,777	24,777	24,777	24,777	24,777
3/4"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1"	272	338	294	294	294	294	294	294	294	294	294	294	294	294
1-1/2"	28	33	29	29	29	29	29	29	29	29	29	29	29	29
2"	9	11	9	9	9	9	9	9	9	9	9	9	9	9
Unmetered			-	-	-	-	-	-	-	-	-	-	-	-
Total Inside City Residential Metered	25,310	28,982	25,110	25,110	25,110	25,110	25,110	25,110	25,110	25,110	25,110	25,110	25,110	25,110
Inside City Commercial/Industrial														
5/8"	382	409	356	356	356	356	356	356	356	356	356	356	356	356
3/4"														
1"	245	281	244	244	244	244	244	244	244	244	244	244	244	244
1 1/2"	260	278	242	242	242	242	242	242	242	242	242	242	242	242
2"	250	286	249	249	249	249	249	249	249	249	249	249	249	249
3"	84	96	83	83	83	83	83	83	83	83	83	83	83	83
4"	59	63	60	60	60	60	60	60	60	60	60	60	60	60
6"	36	41	38	38	38	38	38	38	38	38	38	38	38	38
8"	2	2	2	2	2	2	2	2	2	2	2	2	2	2
10"			-	-	-	-	-	-	-	-	-	-	-	-
12"			-	-	-	-	-	-	-	-	-	-	-	-
16"			-	-	-	-	-	-	-	-	-	-	-	-
20"			-	-	-	-	-	-	-	-	-	-	-	-
Unmetered			-	-	-	-	-	-	-	-	-	-	-	-
Total Inside City Commercial/Industrial	1,307	1,457	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208	1,208
Inside City Lawn														
5/8"	28	35	30	30	30	30	30	30	30	30	30	30	30	30
3/4"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1"	11	13	11	11	11	11	11	11	11	11	11	11	11	11
1-1/2"	4	5	4	4	4	4	4	4	4	4	4	4	4	4
2"	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3"														
4"		-	-	-	-	-	-	-	-	-	-	-	-	-
6"														
8"		-	-	-	-	-	-	-	-	-	-	-	-	-
10"		-	-	-	-	-	-	-	-	-	-	-	-	-
12"		-	-	-	-	-	-	-	-	-	-	-	-	-
16"		-	-	-	-	-	-	-	-	-	-	-	-	-
20"		-	-	-	-	-	-	-	-	-	-	-	-	-
Unmetered		-	-	-	-	-	-	-	-	-	-	-	-	-
Total Inside City Lawn	43	53	46	46	46	46	46	46	46	46	46	46	46	46
Total Inside City Accounts	26,661	30,372	26,423	26,423	26,423	26,423	26,423	26,423	26,423	26,423	26,423	26,423	26,423	26,423
% Change		14%	-13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

TABLE 5: FORECAST OUTSIDE CITY WATER ACCOUNTS

Customer Class	Historical FY 2012	Historical FY 2013	Budget Ye FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Outside City Residential														
5/8"	108	141	123	123	123	123	123	123	123	123	123	123	123	123
3/4"		0	-	-	-	-	-	-	-	-	-	-	-	-
1"	2	3	3	3	3	3	3	3	3	3	3	3	3	3
1-1/2"		0	-	-	-	-	-	-	-	-	-	-	-	-
2"		0	-	-	-	-	-	-	-	-	-	-	-	-
Unmetered		0	-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City Residential Remote	110	144	125	125	125	125	125	125	125	125	125	125	125	125
Outside City Commercial/Industrial														
5/8"	14	16	13	13	13	13	13	13	13	13	13	13	13	13
3/4"		-	-	-	-	-	-	-	-	-	-	-	-	-
1"	10	12	11	11	11	11	11	11	11	11	11	11	11	11
1-1/2"	3	4	3	3	3	3	3	3	3	3	3	3	3	3
2"	6	7	6	6	6	6	6	6	6	6	6	6	6	6
3"		-	-	-	-	-	-	-	-	-	-	-	-	-
4"	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6"	1	0	0	0	0	0	0	0	0	0	0	0	0	0
8"		-	-	-	-	-	-	-	-	-	-	-	-	-
10"		-	-	-	-	-	-	-	-	-	-	-	-	-
12"		-	-	-	-	-	-	-	-	-	-	-	-	-
16"		-	-	-	-	-	-	-	-	-	-	-	-	-
20"		-	-	-	-	-	-	-	-	-	-	-	-	-
Unmetered		-	-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City Commercial/Industrial	35	40	35	35	35	35	35	35	35	35	35	35	35	35
Outside City Lawn														
5/8"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
3/4"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
1"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
1-1/2"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
2"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
3"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
4"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
6"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
8"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
10"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
12"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
16"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
20"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
Unmetered	0	0	-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City Lawn	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City Accounts	145	184	160	160	160	160	160	160	160	160	160	160	160	160
% Change		27%	-13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

In addition to forecasting the number of accounts by meter size, the level of water consumption in each consumption block must be estimated for the forecast period. The historical and forecast level of water consumption by customer class and block is indicated in Tables 6 and 7 on the following two pages.

Note that—consistent with the significant increase in inside city water accounts in FY 2013—inside city water consumption has increased significantly in FY 2013 (18%). Given the uncertainty surrounding the increase in billed consumption in FY 2013, and the subsequent decrease in billed revenues in FY 2014, we have forecast retail consumption at 6% below FY 2013 levels for FY 2014, FY 2015 and the remainder of the ten year forecast period.

As noted above, the City anticipates discontinuing DWSD water service as of April 1, 2014. At that point Genesee County will no longer be a wholesale customer of the City. Therefore the forecast of the County's consumption has been adjusted to account for the final 3 months of FY 2014 (i.e. April, May and June) during which the City will not be providing water service to the County.

TABLE 6: FORECAST INSIDE CITY WATER CONSUMPTION

Customer Class		Historical FY 2012	Historical FY 2013	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Inside City Residential															
Inside City Block 1	0-35	1,540,554	1,720,605	1,625,013	1,625,013	1,625,013	1,625,013	1,625,013	1,625,013	1,625,013	1,625,013	1,625,013	1,625,013	1,625,013	1,625,013
Inside City Block 2	35-2000	74,688	94,254	88,599	88,599	88,599	88,599	88,599	88,599	88,599	88,599	88,599	88,599	88,599	88,599
Inside City Block 3	above 2000		33,000	31,923	31,923	31,923	31,923	31,923	31,923	31,923	31,923	31,923	31,923	31,923	31,923
Total Inside City Residential		1,615,242	1,850,552	1,745,535	1,745,535	1,745,535	1,745,535	1,745,535	1,745,535	1,745,535	1,745,535	1,745,535	1,745,535	1,745,535	1,745,535
Inside City Commercial/Industrial															
Inside City Block 1	0-35	189,132	115,832	111,702	111,702	111,702	111,702	111,702	111,702	111,702	111,702	111,702	111,702	111,702	111,702
Inside City Block 2	35-2000	802,340	915,059	860,757	860,757	860,757	860,757	860,757	860,757	860,757	860,757	860,757	860,757	860,757	860,757
Inside City Block 3	above 2000	318,839	544,447	511,780	511,780	511,780	511,780	511,780	511,780	511,780	511,780	511,780	511,780	511,780	511,780
Total Inside City Commercial/Industrial		1,230,311	1,575,578	1,484,239	1,484,239	1,484,239	1,484,239	1,484,239	1,484,239	1,484,239	1,484,239	1,484,239	1,484,239	1,484,239	1,484,239
Inside City Lawn															
Inside City Block 1	0-35	4,150	5,955	5,504	5,504	5,504	5,504	5,504	5,504	5,504	5,504	5,504	5,504	5,504	5,504
Inside City Block 2	35-2000	5,085	7,504	7,082	7,082	7,082	7,082	7,082	7,082	7,082	7,082	7,082	7,082	7,082	7,082
Inside City Block 3	above 2000														
Total Inside City Lawn		10,110.00	13,300.00	12,585.68	12,585.68	12,585.68	12,585.68	12,585.68	12,585.68	12,585.68	12,585.68	12,585.68	12,585.68	12,585.68	12,585.68
Total Inside City All Classes															
Inside City Block 1	0-35	1,553,836	1,854,392	1,743,119	1,743,119	1,743,119	1,743,119	1,743,119	1,743,119	1,743,119	1,743,119	1,743,119	1,743,119	1,743,119	1,743,119
Inside City Block 2	35-2000	882,994	1,017,497	956,438	956,438	956,438	956,438	956,438	956,438	956,438	956,438	956,438	956,438	956,438	956,438
Inside City Block 3	above 2000	378,839	577,459	542,803	542,803	542,803	542,803	542,803	542,803	542,803	542,803	542,803	542,803	542,803	542,803
Grand Total Inside City Water Consumption		2,915,672	3,449,319	3,242,360	3,242,360	3,242,360	3,242,360	3,242,360	3,242,360	3,242,360	3,242,360	3,242,360	3,242,360	3,242,360	3,242,360
			18%	-6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

TABLE 7: FORECAST OUTSIDE CITY WATER CONSUMPTION

Customer Class	Historical FY 2012	Historical FY 2013	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Outside City Residential														
Outside City Block 1 0-35	5,952	7,680	7,229	7,229	7,229	7,229	7,229	7,229	7,229	7,229	7,229	7,229	7,229	7,229
Outside City Block 2 35-2000	168	943	884	884	884	884	884	884	884	884	884	884	884	884
Outside City Block 3 above 2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City Residential	6,120	8,630	8,112	8,112	8,112	8,112	8,112	8,112	8,112	8,112	8,112	8,112	8,112	8,112
Outside City Commercial/Industrial														
Outside City Block 1 0-35	3,242	3,609	3,298	3,298	3,298	3,298	3,298	3,298	3,298	3,298	3,298	3,298	3,298	3,298
Outside City Block 2 35-2000	2,978	10,223	9,607	9,607	9,607	9,607	9,607	9,607	9,607	9,607	9,607	9,607	9,607	9,607
Outside City Block 3 above 2000	36,198	14,214	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361
Total Outside City Commercial/Industrial	42,418	27,945	26,266	26,266	26,266	26,266	26,266	26,266	26,266	26,266	26,266	26,266	26,266	26,266
Outside City Lawn														
Outside City Block 1 0-35	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Outside City Block 2 35-2000														
Outside City Block 3 above 2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City Lawn	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City All Classes														
Outside City Block 1 0-35	9,174	11,189	10,527	10,527	10,527	10,527	10,527	10,527	10,527	10,527	10,527	10,527	10,527	10,527
Outside City Block 2 35-2000	3,066	11,160	10,490	10,490	10,490	10,490	10,490	10,490	10,490	10,490	10,490	10,490	10,490	10,490
Outside City Block 3 above 2000	36,198	14,214	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361	13,361
Grand Total Inside City Water Consumption	48,438	36,573	34,379	34,379	34,379	34,379	34,379	34,379	34,379	34,379	34,379	34,379	34,379	34,379
TOTAL RETAIL														
Total Block 1	1,860,913	1,065,501	1,750,648	1,750,648	1,750,648	1,750,648	1,750,648	1,750,648	1,750,648	1,750,648	1,750,648	1,750,648	1,750,648	1,750,648
Total Block 2	936,060	1,028,647	966,928	966,928	966,928	966,928	966,928	966,928	966,928	966,928	966,928	966,928	966,928	966,928
Total Block 3	415,217	591,684	556,164	556,164	556,164	556,164	556,164	556,164	556,164	556,164	556,164	556,164	556,164	556,164
Grand Total Retail Consumption	2,964,310	3,485,992	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738
		18%	-6%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
WHOLESALE														
Gonzales County Wholesale Rate														
Gonzales County Consumption	6,121,590	6,214,140	4,661,054	-	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL WATER CONSUMPTION	9,085,900	9,700,132	7,937,793	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738	3,276,738
		7%	-18%	-59%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Forecast Water Revenue at Existing Rates

Water utility revenue at existing rates is the sum of the volumetric and fixed charge revenue. Fixed charge revenue at existing rates was determined by multiplying the number of forecast accounts at each meter size, by the existing rate for that size and again by 12, for each of the monthly bills. Volumetric revenue was determined by multiplying the level of consumption in each consumption block, by the existing rate for that block. Table 8 on the following page summarizes the level of water revenue at existing water rates.

The total level of water revenue at existing rates in FY 2014 is forecast to be approximately $43 Million. Of this, around 70% is derived from the volumetric rates and 30% is associated with the fixed monthly service charges. In FY 2015, the level of revenue at existing rates is forecast to decline to approximately $32 Million. This change can be attributed to the loss of Flint's existing wholesale customer Genesee County, which will occur as a result of the City's discontinuing DWSD water service. On a going forward basis, the level of revenues at existing water rates would remain at 32 Million assuming consumption and account growth remain flat and the City makes no adjustments to water rates.

TABLE 8: FORECAST WATER REVENUE AT FY 2014 RATES

SUMMARY OF FORECAST WATER RATE REVENUE AT EXISTING RATES												
Customer Class	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
GRAND TOTAL SYSTEM CONSUMPTION REVENUE	$29,651,665	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633
GRAND TOTAL SYSTEM FIXED CHARGE REVENUE	$13,322,709	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942
GRAND TOTAL WATER REVENUE AT EXISTING RATES	$42,974,374	$32,762,575	$32,762,575	$32,762,575	$32,762,575	$32,762,575	$32,762,575	$32,762,575	$32,762,575	$32,762,575	$32,762,575	$32,762,575
SUMMARY OF METERED WATER REVENUE												
Customer Class	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
TOTAL RETAIL CONSUMPTION REVENUE												
Total Inside City Residential	$13,141,856	$13,141,856	$13,141,856	$13,141,856	$13,141,856	$13,141,856	$13,141,856	$13,141,856	$13,141,856	$13,141,856	$13,141,856	$13,141,856
Total Inside City Commercial/Industrial	$10,352,630	$10,352,630	$10,352,630	$10,352,630	$10,352,630	$10,352,630	$10,352,630	$10,352,630	$10,352,630	$10,352,630	$10,352,630	$10,352,630
Total Inside City Lawn	$ 93,146	$ 93,146	$ 93,146	$ 93,146	$ 93,146	$ 93,146	$ 93,146	$ 93,146	$ 93,146	$ 93,146	$ 93,146	$ 93,146
	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633
WHOLESALE CONSUMPTION REVENUE												
Genesee County Consumption	$ 6,064,033	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GRAND TOTAL SYSTEM CONSUMPTION REVENUE	$29,651,665	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633	$23,587,633
SUMMARY OF FIXED CHARGE WATER REVENUE												
Customer Class	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
TOTAL RETAIL FIXED CHARGE REVENUE												
Total Inside City Residential	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537	$ 6,745,537
Total Inside City Commercial/Industrial	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266	$ 2,393,266
Total Inside City Lawn	$ 36,139	$ 36,139	$ 36,139	$ 36,139	$ 36,139	$ 36,139	$ 36,139	$ 36,139	$ 36,139	$ 36,139	$ 36,139	$ 36,139
	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942
WHOLESALE FIXED CHARGE REVENUE												
Total Genesee County Fixed Charge	$ 4,147,767	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GRAND TOTAL SYSTEM FIXED CHARGE REVENUE	$13,322,709	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942	$ 9,174,942

3.2.2 Forecast of Water Operation and Maintenance Expenditures

Water O&M Inflation Rates

The budgets provided by the City are the basis for the forecast of water utility O&M expenditures. Given that the transition from DWSD to KWA involves significant shifts in budgetary expenditures on a relatively detailed level, the City provided uninflated estimates of budgeted O&M expenditures for FY 2014 through FY 2017. To forecast the level of water utility O&M expenditures that the City would incur over the forecast period we applied the escalation rates shown in Table 9 below.

TABLE 9: WATER O&M ESCALATION RATES

Category	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Wages & Salaries	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Benefits	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Pension	0%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Medical	0%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%
Materials/Supplies	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
General	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Vehicle	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Pilot	0%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Deprc/Deplc Equip Replace	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Cost Alloc Plan-Expense	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Utilities	0%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Maintenance	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Capital Outlay	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Water Supply Costs	0%	0%	0%	0%	5%	5%	5%	5%	5%	5%	5%	5%
KWA Bond Payment	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
KWA Initiation Fee	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Purchase of KWA raw water	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transfer to 101	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transfer to 493	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

The rates shown above were developed based on discussions with City staff, and our experience with similar utilities.

Forecast Water Utility Operation and Maintenance Expenditures

Tables 10 and 11 on the following page indicate the estimated level of water utility O&M expenditures over the forecast period, both by the escalation rate categories and by department.
In FY 2014, the largest O&M expenditures related to the "Water Plant-Operations" department within which the bulk water purchases from DWSD were included. Note that this amount decreases significantly in FY 2015 and going forward as the City transitions from DWSD to KWA. Excluding purchased water, the most notable expenditures are associated with personnel: Wages and Salaries, Benefits, Pension, and the City's share of retiree healthcare benefits ("Cost Alloc. Plan-Expense"). In general, water O&M expenditures are projected to decrease from around $36 Million currently to $21 Million in FY 2015 with inflationary increases thereafter.

TABLE 10: WATER O&M BY CATEGORY

O&M SUMMARY (BY EXPENDITURE CATEGORY)

Category	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Wages & Salaries	$ 3,228,167	$ 3,672,236	$ 3,782,403	$ 3,896,875	$ 4,012,781	$ 1,133,134	$ 4,257,128	$ 4,384,842	$ 4,516,387	$ 4,651,878	$ 4,791,435	$ 4,935,178
Benefits	$ 1,187,924	$ 1,223,662	$ 1,260,269	$ 1,298,077	$ 1,337,019	$ 1,377,130	$ 1,418,443	$ 1,460,997	$ 1,504,827	$ 1,549,971	$ 1,596,471	$ 1,644,365
Pension	$ 1,803,268	$ 1,696,252	$ 1,967,915	$ 2,087,511	$ 2,191,886	$ 2,301,480	$ 2,416,553	$ 2,537,379	$ 2,663,996	$ 2,797,196	$ 2,937,056	$ 3,083,909
Medical	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Materials/Supplies	$ 1,515,800	$ 2,500,724	$ 2,575,836	$ 2,328,383	$ 2,398,234	$ 2,470,181	$ 2,544,287	$ 2,620,615	$ 2,699,234	$ 2,780,211	$ 2,863,617	$ 2,949,526
General	$ 3,311,852	$ 3,445,290	$ 3,548,589	$ 3,652,988	$ 3,762,576	$ 3,875,453	$ 3,991,717	$ 4,111,468	$ 4,234,812	$ 4,361,857	$ 4,492,712	$ 4,627,494
Vehicle	$ 650,308	$ 602,208	$ 702,872	$ 723,753	$ 745,465	$ 767,829	$ 790,864	$ 814,590	$ 839,028	$ 864,199	$ 890,124	$ 916,828
Pilot	$ 740,150	$ 754,953	$ 770,052	$ 785,453	$ 801,162	$ 817,185	$ 833,529	$ 850,200	$ 867,204	$ 884,548	$ 902,239	$ 920,283
Depr/Depl/Equip Replace	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Cost Alloc Plan-Expense	$ 4,040,200	$ 4,161,618	$ 4,280,073	$ 4,419,273	$ 4,547,731	$ 4,684,163	$ 4,824,688	$ 4,969,429	$ 5,118,511	$ 5,272,307	$ 5,430,225	$ 5,593,132
Utilities	$ 910,200	$ 1,566,200	$ 1,607,868	$ 1,467,948	$ 1,536,885	$ 1,587,737	$ 1,661,241	$ 1,717,291	$ 1,795,983	$ 1,857,472	$ 1,931,719	$ 2,008,968
Maintenance	$ 187,200	$ 422,300	$ 434,969	$ 448,018	$ 461,459	$ 475,302	$ 489,561	$ 504,248	$ 519,376	$ 534,957	$ 551,006	$ 567,536
Capital Outlay	$ 60,200	$ 30,900	$ 31,827	$ 32,782	$ 33,765	$ 34,778	$ 35,822	$ 36,855	$ 38,003	$ 39,143	$ 40,317	$ 41,527
Water Supply Costs	$ 18,000,300	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KWA Bond Payment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KWA Initiation Fee	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Purchase of KWA raw water	$ -	$ -	$ -	$ 1,051,000	$ 1,051,000	$ 1,051,000	$ 1,051,000	$ 1,051,000	$ 1,051,000	$ 1,051,000	$ 1,051,000	$ 1,051,000
Transfer to 101	$ 1,130,300	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000
Transfer to 453	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	$ 38,985,208	$ 21,486,441	$ 22,140,012	$ 23,316,857	$ 23,999,504	$ 24,705,148	$ 25,434,893	$ 26,189,715	$ 26,986,380	$ 27,774,448	$ 28,807,924	$ 29,469,768

TABLE 11: WATER O&M BY DEPARTMENT

O&M DETAIL FOR FISCAL YEAR ENDED JUNE 30

DEPARTMENT	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Total Dept 530 100-Utilities - Water Administration	$ 7,462,304	$ 7,718,011	$ 7,940,402	$ 8,179,197	$ 8,419,950	$ 8,007,940	$ 8,923,374	$ 9,180,480	$ 9,457,012	$ 9,730,090	$ 10,324,288	$ 10,320,048
Total Dept 530 200-Utilities - Water Cross Connection Prog	$ 104,509	$ 108,204	$ 112,037	$ 116,015	$ 120,142	$ 124,426	$ 128,870	$ 133,488	$ 138,279	$ 143,254	$ 148,419	$ 153,787
Total Dept 540 100-Water Service Center Management	$ 1,223,240	$ 1,244,850	$ 1,284,270	$ 1,324,940	$ 1,366,523	$ 1,410,270	$ 1,455,097	$ 1,501,257	$ 1,548,985	$ 1,598,273	$ 1,649,172	$ 1,701,738
Total Dept 540 300-WSC - Capital Improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 540 200-Wso-Meter Reading - Water	$ 700,577	$ 533,201	$ 551,820	$ 570,642	$ 590,050	$ 610,770	$ 631,057	$ 653,013	$ 676,877	$ 700,281	$ 724,750	$ 750,145
Total Dept 540 202-Wso-Water Distribution Mains	$ 3,250,597	$ 3,698,236	$ 3,824,447	$ 3,955,207	$ 4,090,691	$ 4,231,081	$ 4,376,586	$ 4,527,344	$ 4,683,618	$ 4,845,604	$ 5,013,523	$ 5,187,508
Total Dept 545 200 Water Plan: Operations	$ 21,345,168	$ 6,120,868	$ 6,508,031	$ 6,300,105	$ 6,482,080	$ 6,670,603	$ 6,866,822	$ 7 068,291	$ 7,277,976	$ 7,496 260	$ 7,720,402	$ 7,963,729
Total Dept 545 201-Water Plan: Maintenance	$ 1,888,821	$ 1,629,451	$ 1,684,136	$ 1,749,151	$ 1,799,381	$ 1,850,045	$ 1,922,875	$ 1 997,997	$ 2,055,313	$ 2,125 091	$ 2,197,362	$ 2,272,219
Total Dept 545 202 Water Plan: Dam Operations	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 545 203-Water Plan: - Dam Maintenance	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 545 300-Water Plan: - Capital improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 900 101-Transfers out to fund 101	$ 1,130,300	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1 130,000	$ 1,130,000	$ 1,130 000	$ 1,130,000	$ 1,130,000
	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GRAND TOTAL WATER UTILITY	$ 38,985,208	$ 21,486,441	$ 22,140,012	$ 23,316,857	$ 23,999,504	$ 24,705,148	$ 25,434,893	$ 26 189,715	$ 26,986,380	$ 27,774,448	$ 28,807,924	$ 29,469,768

3.2.3 Water Utility CIP and CIP Financing

Tables 12 and 13 on the following two pages indicate the water capital improvements program ("CIP") provided by the City and the CIP financing plan.

As the plan we received from the City was presented in current year dollars, we escalated the project amounts 3% per year from FY 2015 onward. The largest capital improvements in dollar terms are associated with the rehabilitation of the City's water treatment plant (i.e. Water Plant-Phase II projects). These projects are in large part associated with transitioning the City's water treatment plant from back-up status to the primary source of treated water for the City. As discussed above, the improvements to the water treatment plant will allow the City to treat raw water purchased from the KWA for distribution to City customers. In general, the level of spending in the CIP decreases from $10 Million to $7.5 Million as the plant improvements are completed and increases again in the out years due to planned annual recapitalization.

There are three items of note in Table 13. First, all projects are projected to be cash financed at this time. The City may seek to leverage its revenue stream in the future via use of the State of Michigan's ("State") Drinking Water Revolving Revenue Fund ("DWRRF") loan program. This would be particularly beneficial for major water capital improvements, as it would spread the financing responsibility over existing and future ratepayers who receive the benefit of the improvement throughout the asset's useful life. Second, note that the proceeds from the recently completed sale of the Flint pipeline to Genesee County have been included to offset the costs of the treatment plant improvements. Finally, note that the "uses" category includes a line for additional uses, which represent the KWA initiation payments required of the City until it begins paying its share of KWA debt service in FY 2017.

TABLE 12: WATER CAPITAL IMPROVEMENTS PROGRAM

WATER CAPITAL PROJECTS (ESCALATED)															
Project		Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
0000 of Transmission Main Annually	WSC Water Fund	$ -	$ 2,160,000	$ 2,332,800	$ 2,641,056	$ 2,920,350	$ 3,014,110	$ 3,104,530	$ 3,197,672	$ 3,293,602	$ 3,392,410	$ 3,494,183	$ 3,599,009
Water Meter Replacement	WSC Water Fund	$ 500,000	$ 1,287,500	$ 1,326,125	$ 54,636	$ 56,275	$ 57,964	$ 59,703	$ 61,494	$ 63,339	$ 65,239	$ 67,196	$ 69,212
Data Collection and GIS Implementation	WSC Water Fund	$ -	$ 515,000	$ 530,450	$ 546,364	$ 112,661	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Vehicles, Dump Truck, Flatbed, Step Van, Tractor	WSC Water Fund	$	$	$	$	$	$	$	$	$	$	$	$
Valve Exercising	WSC Water Fund	$ 50,000	$ 51,500	$ 53,054	$ 54,654	$ 57,561	$ 59,286	$ 71,043	$ 74,792	$ 76,036	$ 78,256	$ 80,603	$ 83,064
Water Plant-Phase II, Segment I Rehabilitation	Water Plant	$ 1,000,000	$ 1,030,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Water Plant Phase II, Segment II Lime Residual Disposal	Water Plant	$ 700,000	$	$	$	$	$	$	$	$	$	$	$
Utility Rd booster Station Upgrades	Water Plant	$ 120,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Cedar St. Electrical Upgrades	Water Plant	$ 600,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Woodside Roof Replacement	Water Plant	$	$	$	$	$	$	$	$	$	$	$	$
24" Water Line Loop	Water Plant	$ -	$ 103,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
SCADA Upgrades	Water Plant	$ 400,000	$ 412,000	$ 424,360	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Plant 2 to Dart Reservoir Lift Pump Station	Water Plant	$	$ 2,060,000	$	$	$	$	$	$	$	$	$	$
Residual Treatment Solids Handling	Water Plant	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Plant 2 Lab and Ops Center Roof Replacement	Water Plant	$ -	$ 257,500	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Electrical Upgrades	Water Plant	$	$ 377,608	$ 388,936	$ 400,604	$	$	$	$	$	$	$	$
Raw Water Line to PS4	Water Plant	$ -	$ -	$ 536,540	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Alum Feed System	Water Plant	$ -	$ -	$ 39,253	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Roof Filtration System	Water Plant	$	$	$ 387,223	$	$	$	$	$	$	$	$	$
Hamilton Dam Sheet Piling	Water Plant	$ -	$ -	$ 1,060,900	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Yard Valve Replacement 4	Water Plant	$ -	$ -	$ -	$ 218,645	$ 225,102	$ 231,855	$ 238,810	$ 245,975	$ 253,354	$ 260,955	$ 268,783	$ 276,847
Phosphoric Acid Feed System	Water Plant	$	$	$	$ 188,764	$	$	$	$	$	$	$	$
Elevated Tank Altitude Valve Rebuild	Water Plant	$ -	$ -	$ -	$ 54,636	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
New Fencing Around Water Plant	Water Plant	$ -	$ -	$ -	$ 109,273	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Security Cameras	Water Plant	$	$	$	$ 10,927	$	$	$	$	$	$	$	$
Bread Lake Dam Replacement	Water Plant	$ -	$ -	$ -	$ 656,636	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Various Control Station Roof Replacements	Water Plant	$ -	$ -	$ -	$ -	$ 552,754	$ 579,537	$ 597,026	$ 614,937	$ 633,385	$ 652,387	$ 671,958	$ 692,117
Replace Pump 1 @ PS#3 with VFD	Water Plant	$	$	$	$	$ 46,000	$ 46,371	$ 47,762	$ 49,196	$ 50,671	$ 52,191	$ 53,757	$ 55,369
Replace Pumps 1&2 @ PS#4 With VFDs	Water Plant	$ -	$ -	$ -	$ -	$ 138,626	$ 173,391	$ 178,593	$ 184,451	$ 190,016	$ 195,716	$ 201,587	$ 207,635
Holloway Drum Gate Rehab	Water Plant	$ -	$ -	$ -	$ -	$ 1,125,509	$ 1,159,274	$ 1,194,052	$ 1,229,874	$ 1,266,770	$ 1,304,773	$ 1,343,916	$ 1,384,234
Ongoing System Re Capitalization	WSC Water Fund	$	$	$ 530,460	$ 1,092,727	$ 1,126,509	$ 1,159,274	$ 1,791,078	$ 1,844,811	$ 1,900,155	$ 1,957,159	$ 2,015,876	$ 2,076,361
		$ 9,675,000	$ 8,267,398	$ 8,340,157	$ 6,236,756	$ 6,415,400	$ 6,491,915	$ 7,288,719	$ 7,502,251	$ 7,727,297	$ 7,959,116	$ 8,197,890	$ 8,443,827

TABLE 13: WATER CIP FINANCING PLAN

Water Construction Fund/Account		Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Beginning CIP Fund Balance													
Beginning Year Construction Fund Balance		$ -	$ 144,700	$ 293,302	$ 169,165	$ 433,409	$ 18,008	$ 26,074	$ 242,355	$ 240,125	$ 12,827	$ 53,711	$ 355,821
Carry-Over CIP from Previous Year		$ -											
Net Funds Available for Current CIP		$ -	$ 144,700	$ 293,302	$ 169,165	$ 433,409	$ 18,008	$ 26,074	$ 242,355	$ 240,125	$ 12,827	$ 53,711	$ 355,821
Sources of CIP Financing													
Water Revenue Bonds Issued		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Water Commercial Paper Program		$	$	$	$	$	$	$	$	$	$	$	$
Water Rate Revenue Financing (Cash)		$ 7,000,000	$ 9,000,000	$ 8,500,000	$ 8,500,000	$ 6,000,000	$ 8,500,000	$ 7,500,000	$ 7,500,000	$ 7,500,000	$ 8,000,000	$ 8,500,000	$ 8,500,000
SDC Receipts Used for CIP Financing													
Proceeds from Sale of Flint Waterline		$ 3,987,700											
		$ 10,987,700	$ 9,144,700	$ 8,793,302	$ 8,669,165	$ 6,433,409	$ 8,518,008	$ 7,526,074	$ 7,742,355	$ 7,740,125	$ 8,012,827	$ 8,553,711	$ 8,855,821
Uses of CIP Funds													
Total WSC Water Fund		$ 560,000	$ 4,027,300	$ 5,102,929	$ 4,590,381	$ 4,288,188	$ 4,300,907	$ 5,026,960	$ 5,177,769	$ 5,333,102	$ 5,483,095	$ 5,657,588	$ 5,827,525
Total Water Plant		$ 9,115,000	$ 1,240,098	$ 2,897,208	$ 1,835,375	$ 2,127,212	$ 2,191,026	$ 2,256,758	$ 2,324,462	$ 2,394,196	$ 2,466,021	$ 2,540,002	$ 2,616,202
Additional Uses		$ 1,168,000	$ 584,000	$ 584,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Current Year CIP		$ 10,843,000	$ 8,851,398	$ 8,624,137	$ 8,235,756	$ 6,415,400	$ 8,491,933	$ 7,283,719	$ 7,502,231	$ 7,727,297	$ 7,959,116	$ 8,197,590	$ 8,443,827
Bond Issuance Costs		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Refunding of Commercial Paper			$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
EQUALS: Ending CIP Fund Balance		$ 144,700	$293,302	$ 169,165	$433,409	$18,008	$26,074	$242,355	$240,125	$12,827	$53,711	$355,821	$411,994
Target balance (% of Next Years CIP)	25.00%	$ 2,277,850	$ 2,156,034	$ 1,958,939	$ 1,903,850	$ 1,622,984	$ 1,820,936	$ 1,875,558	$ 1,951,824	$ 1,989,779	$ 2,049,482	$ 2,110,957	$ -
Variance from Target		($2,088,150)	($1,862,732)	($1,789,774)	($1,470,441)	($1,604,976)	($1,794,856)	($1,633,202)	($1,861,700)	($1,976,952)	($1,995,782)	($1,755,136)	$411,994

3.2.4 Water Cash Flow Forecast

The final step in the development of the water utility financial plan involves the preparation of a comprehensive cash flow forecast. A summary of the water cash flow forecast is presented in Table 14 on the following page. The key components of the forecast are Financial Plan Inputs, Revenues, Expenditures, and Operating Performance.

- The Financial Plan Inputs component indicates the forecast rate revenue increases. These increases were determined in consultation with City staff and are designed to:
- Ensure recovery of O&M expenditures and existing water utility debt service
- Provide cash financing for the capital projects outlined in the CIP including those necessary to transition from DWSD to the KWA
- Minimize the risk associated with operating a climate dependent enterprise via the build-up of operating reserves equivalent to 90 days of O&M and Debt Service

The Revenues component indicates the revenue at existing rates discussed previously, non-rate revenue and the additional revenue generated by the rate revenue increases shown in the inputs section. Given the forecast of water demand, O&M and capital expenditures and the 90 Day operating reserve benchmark, the "additional revenue" line represents the amount of revenue needed—above existing rate revenues –-to ensure adequate recovery of the water utility's revenue requirement in each year of the forecast.

The Expenditures component indicates the major sources of expenditures for the City's water utility: O&M expenditures, Capital expenditures (Rate Revenue Financing and Debt Service) and Transfers to the Operating Reserve.

The Operating performance component indicates the year end position of the water utility with respect to a few key factors. Included are the estimated operating reserve balance, the target reserve balance (90 Days of O&M and Debt Service), the construction fund ending balance and the water utility's debt service coverage ratio.

TABLE 14: WATER CASH FLOW FORECAST

Water Utility	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 202[illegible]	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
FINANCIAL PLAN INPUTS												
Cumulative % Increase		5.0%	10.3%	15.2%	19.7%	22.2%	25.3%	27.8%	30.3%	33.0%	35.6%	38.3%
Annual % Increase in Rate Revenues	0.0%	5.0%	5.0%	4.5%	3.0%	3.0%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%
REVENUES												
Grand Total Water Revenue at Existing Rates	$ 42,574,374	$ 32,702,575	$ 32,702,575	$ 32,702,575	$ 32,702,575	$ 32,702,575	$ 32,702,575	$ 32,702,575	$ 32,702,575	$ 32,702,575	$ 32,702,575	$ 32,702,575
Additional Revenue from Rate Increases	$ -	$ 1,638,100	$ 3,358,100	$ 4,983,500	$ 6,115,900	$ 7,282,300	$ 8,263,400	$ 9,184,300	$ 9,941,600	$ 10,795,700	$ 11,666,900	$ 12,555,500
Total Non-Rate Revenues	$ 886,000	$ 913,314	$ 931,644	$ 927,686	$ 928,503	$ 929,131	$ 931,145	$ 930,726	$ 883,187	$ 896,360	$ 935,527	$ 942,481
Add Transfers in from General Fund	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Rate and Non-Rate Revenues	*$ 43,860,374*	*$ 35,313,989*	*$ 37,992,318*	*$ 38,673,761*	*$ 39,906,978*	*$ 40,974,006*	*$ 41,977,120*	*$ 42,797,601*	*$ 43,697,362*	*$ 44,494,635*	*$ 45,365,002*	*$ 46,260,556*
EXPENDITURES												
Total O&M Expenditures	*$ 36,865,205*	*$ 21,483,441*	*$ 22,140,012*	*$ 23,310,857*	*$ 23,969,504*	*$ 24,705,148*	*$ 25,434,603*	*$ 26,188,715*	*$ 26,968,360*	*$ 27,774,448*	*$ 28,607,924*	*$ 29,469,768*
Grand Total Existing and Proposed Debt Service	$ 2,747,948	$ 2,742,821	$ 2,748,423	$ 9,648,446	$ 9,644,008	$ 9,643,196	$ 9,639,827	$ 9,192,721	$ 8,676,674	$ 8,085,623	$ 8,423,748	$ 6,900,000
Water Rate Revenue Financing (Cash)	$ 7,000,000	$ 9,000,000	$ 9,500,000	$ 6,500,000	$ 6,000,000	$ 8,500,000	$ 7,500,000	$ 7,500,000	$ 7,500,000	$ 8,000,000	$ 8,500,000	$ 8,500,000
Water Transfer to Equipment Replacement Fund	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Capital Expenditures	*$ 9,747,948*	*$ 11,742,821*	*$ 12,248,423*	*$ 16,148,446*	*$ 15,644,008*	*$ 18,143,196*	*$ 17,139,827*	*$ 16,692,721*	*$ 16,176,674*	*$ 16,085,623*	*$ 16,923,748*	*$ 15,400,000*
Add Net Surplus/(Deficit)	*$ (2,752,779)*	*$ 2,087,727*	*$ 3,605,883*	*$ (791,543)*	*$ 163,465*	*$ 125,652*	*$ (597,311)*	*$ (83,835)*	*$ 492,328*	*$ 634,563*	*$ (166,668)*	*$ 1,390,788*
GROSS REVENUE REQUIREMENTS												
O&M	$ 36,865,205	$ 21,483,441	$ 22,140,012	$ 23,310,857	$ 23,969,504	$ 24,705,148	$ 25,434,603	$ 26,188,715	$ 26,968,360	$ 27,774,448	$ 28,607,924	$ 29,469,768
Capital	$ 9,747,948	$ 11,742,821	$ 12,248,423	$ 16,148,446	$ 15,644,008	$ 18,143,196	$ 17,139,827	$ 16,692,721	$ 16,176,674	$ 16,085,623	$ 16,923,748	$ 15,400,000
Operating Surplus/Deficit	$ (2,752,779)	$ 2,087,727	$ 3,605,883	$ (791,543)	$ 163,465	$ 125,652	$ (597,311)	$ (83,835)	$ 492,328	$ 634,563	$ (166,668)	$ 1,390,788
Total Gross Revenue Requirements	*$ 43,860,374*	*$ 35,313,989*	*$ 37,992,318*	*$ 38,673,761*	*$ 39,906,978*	*$ 40,974,006*	*$ 41,977,120*	*$ 42,797,601*	*$ 43,697,362*	*$ 44,494,635*	*$ 45,365,002*	*$ 46,260,556*
OPERATING PERFORMANCE												
Ending Operating Reserve Balance	$ 3,375,098	$ 5,462,825	$ 9,128,708	$ 8,337,164	$ 8,500,629	$ 8,626,281	$ 9,028,987	$ 8,945,145	$ 9,437,471	$ 10,072,037	$ 9,905,369	$ 11,296,156
Target Operating Reserve Balance	$ 9,603,283	$ 6,056,368	$ 6,221,809	$ 6,241,326	$ 6,110,878	$ 6,587,036	$ 6,788,608	$ 6,945,359	$ 6,911,268	$ 6,965,013	$ 6,257,918	$ 6,092,142
Variance From Target	$ (6,528,192)	$ (593,742)	$ 2,907,057	$ 95,838	$ 89,751	$ 1,039,245	$ 240,379	$ 99,787	$ 526,215	$ 1,107,019	$ 647,451	$ 2,203,714
Construction Fund Ending Balance	*$ 144,700*	*$ 256,302*	*$ 169,165*	*$ 433,409*	*$ 18,009*	*$ 26,074*	*$ 242,356*	*$ 240,125*	*$ 12,827*	*$ 53,711*	*$ 356,821*	*$ 411,994*
Stand Alone DSCR	2.55	5.04	5.43	1.99	1.64	1.59	1.72	1.81	1.92	2.07	1.99	2.43

3.3 WASTEWATER UTILITY FINANCIAL PLAN

3.3.1 Forecast Wastewater Units of Service and Revenues at Existing Rates

Wastewater Utility Rates

The City recovers the cost of operating the wastewater utility via volumetric rates (i.e. rates based on the amount of wastewater discharged) and fixed monthly service charges (a charge per customer bill). The City's existing wastewater volumetric charge is a uniform rate, or a rate that does not vary (on a per unit basis) as the amount of wastewater discharged varies. The existing wastewater volumetric rate structure is indicated in Table 15 below. Similar to the water utility volumetric rate structure a distinction is made between inside and outside city customers, with the outside city rate set at approximately 110% of the inside city rate.

TABLE 15: EXISTING WASTEWATER VOLUMETRIC RATES

CUSTOMER CLASS		Test-Year FY 2014 Existing Rates
Total Inside City All Classes	($/CCF)	$ 4.80
Total Outside City All Classes	($/CCF)	$ 5.29

The existing wastewater rate structure includes a fixed service charge which varies by customer water meter size. The rates are shown in Table 16 on the following page. Most Flint residential customers have a 5/8" meter and currently pay the $32.00 fixed monthly service charge. Similar to the wastewater volumetric rate, the wastewater fixed charges include an inside outside city differential (120%).

In addition to the retail wastewater rates, the City currently serves a wholesale wastewater customer, Beecher Metropolitan District ("District"). The District currently pays $1.34 per CCF of wastewater discharged, an amount that was negotiated in the 1995 Contract between the City and the District.

TABLE 16: EXISTING WASTEWATER FIXED CHARGES

CUSTOMER CLASS	Test-Year FY 2014 Existing Rates
Inside City Residential Customers	
5/8"	$ 32.00
3/4"	$ 46.92
1"	$ 65.34
1-1/2"	$ 65.34
2"	$ 65.34
Inside City Commercial/Industrial Customers	
5/8"	$ 51.92
3/4"	$ 64.13
1"	$ 84.71
1 1/2"	$ 137.84
2"	$ 196.16
3"	$ 438.06
4"	$ 721.84
6"	$ 1,459.95
8"	$ 2,148.21
10"	$ 2,918.39
12"	$ 3,420.23
16"	$ 4,523.95
20"	$ 5,326.87
Outside City Residential Customers	
5/8"	$ 41.01
3/4"	$ 56.01
1"	$ 76.99
1-1/2"	$ 76.99
2"	$ 76.99
Outside City Commercial/Industrial Customers	
5/8"	$ 58.12
3/4"	$ 73.62
1"	$ 98.05
1-1/2"	$ 164.80
2"	$ 232.13
3"	$ 522.87
4"	$ 886.01
6"	$ 1,770.13
8"	$ 2,648.52
10"	$ 3,522.54
12"	$ 4,132.57
16"	$ 5,497.91
20"	$ 6,532.02

Forecast Wastewater Units of Service

In order to forecast the level of revenue expected under existing wastewater fixed and volumetric rates, the number of wastewater accounts and the level of wastewater usage must be estimated for

the forecast period. The number of historical and forecast wastewater utility accounts is indicated in Tables 17 and 18 on the following two pages.

Note that the raw billing data appear to indicate a 14% increase in inside city accounts and an 18% increase in outside city accounts from FY 2012 to FY 2013. This increase in accounts does not appear to have been sustained into FY 2014. The City has indicated that wastewater billings have decreased approximately 12% from FY 2013. Given this change we have adjusted the forecast level of wastewater accounts to be around 13% less than their FY 2013 level. As no significant growth the City's customer base is expected, no customer growth has been forecast on a going forward basis.

TABLE 17: FORECAST INSIDE CITY WASTEWATER ACCOUNTS

Customer Class	Historical FY 2012	Historical FY 2013	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Inside City Residential														
5/8"	24,975	26,460	24,760	24,760	24,760	24,760	24,760	24,760	24,760	24,760	24,760	24,760	24,760	24,760
1"	271	337	293	293	293	293	293	293	293	293	293	293	293	293
1-1/2"	26	33	29	29	29	29	29	29	29	29	29	29	29	29
2"	9	11	9	9	9	9	9	9	9	9	9	9	9	9
Unmetered	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Inside City Residential Remote	25,282	26,841	25,091	25,091	25,091	25,091	25,091	25,091	25,091	25,091	25,091	25,091	25,091	25,091
Inside City Commercial/Industrial														
5/8"	374	402	350	350	350	350	350	350	350	350	350	350	350	350
3/4"	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1"	240	279	238	238	238	238	238	238	238	238	238	238	238	238
1-1/2"	238	283	229	229	229	229	229	229	229	229	229	229	229	229
2"	237	271	236	236	236	236	236	236	236	236	236	236	236	236
3"	70	80	77	77	77	77	77	77	77	77	77	77	77	77
4"	56	61	53	53	53	53	53	53	53	53	53	53	53	53
6"	36	41	36	36	36	36	36	36	36	36	36	36	36	36
8"	3	3	3	3	3	3	3	3	3	3	3	3	3	3
10"			-	-	-	-	-	-	-	-	-	-	-	-
12"			-	-	-	-	-	-	-	-	-	-	-	-
16"			-	-	-	-	-	-	-	-	-	-	-	-
20"			-	-	-	-	-	-	-	-	-	-	-	-
Unmetered														
Total Inside City Commercial/Industrial	1,261	1,403	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221	1,221
Total Inside City Accounts	26,543	28,244	26,312	26,312	26,312	26,312	26,312	26,312	26,312	26,312	26,312	26,312	26,312	26,312
		6%	-13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

TABLE 18: FORECAST OUTSIDE CITY WASTEWATER ACCOUNTS

Customer Class	Historical FY 2012	Historical FY 2013	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Outside City Residential														
5/8"	6	7	6	6	6	6	6	6	6	6	6	6	6	6
3/4"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
1"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
1-1/2"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
2"	0	0	-	-	-	-	-	-	-	-	-	-	-	-
Unmetered	0	0	-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City Residential Remote	6	7	6	6	6	6	6	6	6	6	6	6	6	6
Outside City Commercial/Industrial														
5/8"	5	5	4	4	4	4	4	4	4	4	4	4	4	4
3/4"	-		-	-	-	-	-	-	-	-	-	-	-	-
1"	2	3	3	3	3	3	3	3	3	3	3	3	3	3
1-1/2"	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2"	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3"	-		-	-	-	-	-	-	-	-	-	-	-	-
4"	-		-	-	-	-	-	-	-	-	-	-	-	-
6"														
8"	-		-	-	-	-	-	-	-	-	-	-	-	-
10"	-		-	-	-	-	-	-	-	-	-	-	-	-
12"														
16"	-		-	-	-	-	-	-	-	-	-	-	-	-
20"	-		-	-	-	-	-	-	-	-	-	-	-	-
Unmetered	-		-	-	-	-	-	-	-	-	-	-	-	-
Total Outside City Commercial/Industrial	11	13	11	11	11	11	11	11	11	11	11	11	11	11
Total Outside City Accounts	17	20	17	17	17	17	17	17	17	17	17	17	17	17
		18%	13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

In addition to forecasting the number of accounts by meter size and customer class, the level of wastewater usage must also be estimated for the forecast period. The historical and forecast level of wastewater usage by customer class can be on Table 19 on the following page.

Note that—consistent with the significant increase in inside city water accounts in FY 2013—inside city wastewater usage has increased significantly in FY 2013 (18%). Given the uncertainty surrounding this most recent upswing in billed wastewater usage, and the subsequent decrease in billed wastewater revenues, retail usage has been forecast at 15% below FY 2013 levels for FY 2014, FY 2015 and the remainder of the ten year forecast period.

TABLE 19: FORECAST WASTEWATER USAGE

Customer Class	Historical FY 2012	Historical FY 2013	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
INSIDE CITY														
Inside City Metered Wastewater Rates														
Total Inside City Residential	1,349,611	1,324,901	1,370,000	1,370,000	1,370,000	1,370,000	1,370,000	1,370,000	1,370,000	1,370,000	1,370,000	1,370,000	1,370,000	1,370,000
Total Inside City Commercial/Industrial	1,365,944	1,345,354	1,398,721	1,398,721	1,398,721	1,398,721	1,398,721	1,398,721	1,398,721	1,398,721	1,398,721	1,398,721	1,398,721	1,398,721
Total Inside City All Classes	2,715,555	3,500,455	2,975,387	2,975,387	2,975,387	2,975,387	2,975,387	2,975,387	2,975,387	2,975,387	2,975,387	2,975,387	2,975,387	2,975,387
		27%	-15%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
OUTSIDE CITY														
Outside City Metered Wastewater Rates														
Total Outside City Residential	219	142	205	205	205	205	205	205	205	205	205	205	205	205
Total Outside City Commercial/Industrial	8,505	8,349	7,012	7,012	7,012	7,012	7,012	7,012	7,012	7,012	7,012	7,012	7,012	7,012
Total Outside City All Classes	8,724	8,491	7,217	7,217	7,217	7,217	7,217	7,217	7,217	7,217	7,217	7,217	7,217	7,217
		-3%	-15%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
TOTAL RETAIL														
Total Residential	1,349,830	1,325,143	1,370,072	1,370,072	1,370,072	1,370,072	1,370,072	1,370,072	1,370,072	1,370,072	1,370,072	1,370,072	1,370,072	1,370,072
Total Commercial/Industrial	1,404,449	1,353,703	1,405,733	1,405,733	1,405,733	1,405,733	1,405,733	1,405,733	1,405,733	1,405,733	1,405,733	1,405,733	1,405,732	1,405,733
	2,754,279	3,508,945	2,982,604	2,982,604	2,982,604	2,982,604	2,982,604	2,982,604	2,982,604	2,982,604	2,982,604	2,982,604	2,982,604	2,982,604
		27%	-15%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
WHOLESALE														
Beecher Metro Wholesale Rate														
Beecher Metro Wholesale Rate	520,393	513,673	513,673	513,673	513,673	513,673	513,673	513,673	513,673	513,673	513,673	513,673	513,673	513,673
GRAND TOTAL WASTEWATER USAGE	3,274,672	4,022,618	3,496,277	3,496,277	3,496,277	3,496,277	3,496,277	3,496,277	3,496,277	3,496,277	3,496,277	3,496,277	3,496,277	3,496,277
		23%	-13%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Forecast Wastewater Revenue at Existing Rates

Wastewater utility revenue at existing rates is the sum of wastewater volumetric and fixed charge revenue. Fixed charge revenue at existing rates was determined by multiplying the number of forecast accounts at each meter size, by the existing rate for that size and again by 12 for each of the monthly bills. Volumetric revenue was determined by multiplying the level of consumption by customer class, by the existing volumetric rates. Table 20 on the following page indicates the level of wastewater revenue at existing rates.

Total wastewater revenue at existing rates in FY 2014 is forecast to be approximately $27 Million. Of this, approximately 54% is derived from the volumetric rates and 46% is associated with the fixed monthly service charges. On a going forward basis, the level of revenues at existing wastewater rates would remain at $27 Million assuming consumption remains flat and the City makes no adjustments to wastewater rates.

TABLE 20: FORECAST WASTEWATER REVENUE AT FY 2014 RATES

SUMMARY OF FORECAST WASTEWATER RATE REVENUE AT EXISTING RATES												
Customer Class	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
GRAND TOTAL SYSTEM USAGE REVENUE	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754
GRAND TOTAL SYSTEM FIXED CHARGE REVENUE	$ 12,771,620	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,620	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621
GRAND TOTAL WASTEWATER REVENUE AT EXISTING RA	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374	$ 27,777,374

SUMMARY OF METERED WASTEWATER REVENUE												
Customer Class	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
TOTAL RETAIL USAGE REVENUE												
Total Inside City Residential	$ 7,509,083	$ 7,509,083	$ 7,509,083	$ 7,509,083	$ 7,509,083	$ 7,509,083	$ 7,509,083	$ 7,509,083	$ 7,509,083	$ 7,509,083	$ 7,509,083	$ 7,509,083
Total Inside City Commercial/Industrial	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917	$ 6,750,917
	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000	$ 14,320,000
WHOLESALE USAGE REVENUE												
Beecher Metro Wholesale Rate	$ 685,753	$ 685,753	$ 685,753	$ 685,753	$ 685,753	$ 685,753	$ 685,753	$ 685,753	$ 685,753	$ 685,753	$ 685,753	$ 685,753
GRAND TOTAL SYSTEM USAGE REVENUE	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754	$ 15,005,754

SUMMARY OF FIXED CHARGE WASTEWATER REVENUE												
Customer Class	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
TOTAL RETAIL FIXED CHARGE REVENUE												
Total Inside City Residential	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131	$ 9,771,131
Total Inside City Commercial/Industrial	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974	$ 2,972,974
	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105	$ 12,744,105
WHOLESALE FIXED CHARGE REVENUE												
Beecher Metro Fixed Charge	$ 27,516	$ 27,516	$ 27,516	$ 27,516	$ 27,516	$ 27,516	$ 27,516	$ 27,516	$ 27,516	$ 27,516	$ 27,516	$ 27,516
GRAND TOTAL SYSTEM FIXED CHARGE REVENUE	$ 12,771,620	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,620	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621	$ 12,771,621

3.3.2 Forecast Wastewater Utility Operation and Maintenance Expenditures

Wastewater O&M Inflation Rates

The budgets provided by the City are the basis for the forecast of wastewater utility O&M expenditures. To forecast the level of wastewater utility O&M expenditures that the City is projected to incur over the forecast period we applied escalation rates shown in Table 21 below.

TABLE 21: WASTEWATER O&M ESCALATION RATES

Category	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Wages & Salaries	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Benefits	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Pension	0%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Medical	0%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%
Materials/Supplies	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
General	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Vehicle	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Pilot	0%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Depric/Deplic Equip Replace	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Cost Alloc Plan-Expense	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Utilities	0%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Maintenance	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Capital Outlay	0%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Water Supply Costs	0%	0%	0%	0%	5%	5%	5%	5%	5%	5%	5%	5%
KWA Bond Payment	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
KWA Initiation Fee	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Purchase of KWA raw water	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transfer to 101	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transfer to 493	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Forecast Wastewater Operation and Maintenance Expenditures

Tables 22 and 23 on the following page indicate level of wastewater O&M expenditures over the forecast period, by the escalation rate categories and by department.

Unlike the water utility there is no single large cost driver. The most notable expenditures are associated with personnel: Wages and Salaries, Benefits, Pension, and the City's share of retiree healthcare benefits ("Cost Alloc. Plan-Expense"). In general, wastewater O&M expenditures are projected to decrease from 24 Million in FY 2014 to 23 Million in FY 2015 with inflationary increases thereafter.

TABLE 22: WASTEWATER O&M BY CATEGORY

Category	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Wages & Salaries	$ 4,289,608	$ 4,321,215	$ 4,450,913	$ 4,584,440	$ 4,721,973	$ 4,863,633	$ 5,009,542	$ 5,159,825	$ 5,314,623	$ 5,474,061	$ 5,638,283	$ 5,807,432
Benefits	$ 1,684,693	$ 1,696,181	$ 1,643,036	$ 1,692,327	$ 1,743,097	$ 1,795,390	$ 1,849,252	$ 1,904,729	$ 1,961,871	$ 2,020,727	$ 2,081,349	$ 2,143,790
Pension	$ 2,047,927	$ 2,091,010	$ 2,190,199	$ 2,255,009	$ 2,321,309	$ 2,389,078	$ 2,459,494	$ 2,532,903	$ 2,608,117	$ 2,686,273	$ 2,766,700	$ 2,849,000
Medical	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Materials, Supplies	$ 1,491,050	$ 1,535,782	$ 1,581,855	$ 1,629,311	$ 1,678,190	$ 1,728,536	$ 1,780,392	$ 1,833,803	$ 1,888,818	$ 1,945,482	$ 2,003,847	$ 2,063,962
General	$ 3,001,260	$ 1,702,239	$ 1,634,006	$ 1,668,950	$ 1,914,718	$ 1,972,161	$ 2,031,326	$ 2,092,266	$ 2,155,034	$ 2,219,684	$ 2,286,275	$ 2,354,863
Vehicle	$ 760,802	$ 783,627	$ 807,136	$ 831,349	$ 856,290	$ 881,979	$ 908,438	$ 935,691	$ 963,762	$ 992,675	$ 1,022,455	$ 1,053,129
Plant	$ 1,218,360	$ 1,242,666	$ 1,267,519	$ 1,292,870	$ 1,318,727	$ 1,345,102	$ 1,371,004	$ 1,399,444	$ 1,427,433	$ 1,455,981	$ 1,485,101	$ 1,514,803
Depn/Depln Equip Replace	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Cost Allo Main-Expense	$ 5,036,744	$ 5,189,906	$ 5,345,604	$ 5,505,972	$ 5,671,151	$ 5,841,286	$ 6,016,524	$ 6,197,020	$ 6,382,930	$ 6,574,418	$ 6,771,651	$ 6,974,800
Utilities	$ 2,263,000	$ 2,218,320	$ 1,950,941	$ 2,039,378	$ 2,120,954	$ 2,205,792	$ 2,294,023	$ 2,385,784	$ 2,481,215	$ 2,580,464	$ 2,683,683	$ 2,791,030
Maintenance	$ 401,600	$ 413,648	$ 426,057	$ 438,839	$ 452,004	$ 465,564	$ 479,531	$ 493,917	$ 508,735	$ 523,997	$ 539,717	$ 555,908
Capital Outlay	$ 45,700	$ 49,131	$ 50,605	$ 52,123	$ 53,687	$ 55,297	$ 56,956	$ 58,665	$ 60,425	$ 62,238	$ 64,105	$ 66,028
Water Supply Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KWA Bond Payment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
KWA Initiation Fee	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Purchase of KWA raw water	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Interest	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Principal	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Transfer to 101	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000
Transfer to 493	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	$ 24,323,627	$ 23,053,392	$ 23,394,671	$ 24,091,569	$ 24,812,101	$ 25,657,113	$ 26,327,481	$ 27,124,115	$ 27,947,961	$ 28,800,000	$ 29,681,251	$ 30,592,770

TABLE 23: WASTEWATER O&M BY DEPARTMENT

O&M DETAIL FOR FISCAL YEAR ENDED JUNE 30 DEPARTMENT	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Total Dept 536.101-Utilities - Sewer Administration	$ 7,442,428	$ 7,553,942	$ 7,671,678	$ 8,096,518	$ 8,305,945	$ 8,563,051	$ 8,807,033	$ 9,056,091	$ 9,316,436	$ 9,582,281	$ 9,855,817	$ 10,137,362
Total Dept 540.100-Water Service Center Management	$ 2,713,145	$ 839,175	$ 865,367	$ 891,748	$ 922,849	$ 952,503	$ 983,141	$ 1,014,800	$ 1,047,513	$ 1,081,318	$ 1,116,254	$ 1,152,359
Total Dept 540.200-WSC - Capital Improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 540.207-Wsc-Meter Reading - Sewer	$ 700,518	$ 738,419	$ 762,919	$ 788,273	$ 814,510	$ 841,663	$ 869,768	$ 898,858	$ 928,970	$ 960,143	$ 992,417	$ 1,025,832
Total Dept 540.208 Wsc Sewer Maint./Construction	$ 2,708,188	$ 2,797,606	$ 2,885,717	$ 2,977,382	$ 3,102,887	$ 3,212,232	$ 3,326,728	$ 3,443,478	$ 3,566,654	$ 3,692,469	$ 3,824,049	$ 3,960,627
Total Dept 550.100-Wpc Operations	$ 5,176,142	$ 5,515,160	$ 5,367,112	$ 5,557,829	$ 5,155,778	$ 5,350,628	$ 6,172,461	$ 6,392,788	$ 6,621,256	$ 6,858,289	$ 7,104,048	$ 7,359,024
Total Dept 550.200-Wpc-Third Ave Pump Station	$ 909,913	$ 735,282	$ 761,601	$ 789,306	$ 817,834	$ 847,425	$ 878,115	$ 909,960	$ 943,000	$ 977,297	$ 1,012,907	$ 1,049,890
Total Dept 550.202 Wpc Maintenance Expense	$ 2,817,899	$ 2,912,411	$ 3,003,177	$ 3,109,314	$ 3,212,950	$ 3,329,211	$ 3,451,236	$ 3,646,160	$ 3,656,132	$ 3,788,368	$ 3,916,829	$ 4,047,876
Total Dept 550.300-WPC - Capital Improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 550.800-Non_Dep_Exp-Sewer Portion	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 566.101 Transfer out to fund 101	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000	$ 1,860,000
	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GRAND TOTAL WASTEWATER UTILITY	$ 24,323,527	$ 23,053,392	$ 23,394,671	$ 24,091,569	$ 24,812,101	$ 25,657,113	$ 26,327,481	$ 27,124,115	$ 27,947,961	$ 28,800,000	$ 29,681,251	$ 30,592,770

3.3.3 Wastewater Utility CIP and CIP Financing

Tables 24 and 25 on the following two pages indicate the wastewater capital improvements program ("CIP") provided by the City and the CIP financing plan. As the plan we received from the City was presented in current year dollars, we escalated the project amounts 3% per year from FY 2015 onward. The largest capital projects relate to rehabilitation of the City's wastewater treatment plant and pumping stations. In general, the level of spending in the CIP peaks at from $12 Million in FY 2018 and returns to an average level of around $8 Million going forward.

Table 25 summarizes the wastewater utility CIP financing plan. While the CIP financing plan used for this report only incorporates cash financing, the City may seek to leverage its revenue stream in the future via the issuance of revenue bonds or other alternative financing instruments. This would be particularly beneficial for major wastewater capital improvements, as it would spread the financing responsibility over existing and future ratepayers who receive the benefit of the improvement throughout the asset's useful life.

TABLE 24: WASTEWATER CAPITAL IMPROVEMENTS PROGRAM

WASTEWATER CAPITAL PROJECTS (ESCALATED)																				
Project		Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Pipe Lining	WRC Sewer Fund	$ 1,500,000	$ 1,500,000	$ 1,779,375	$ 1,500,000	$ 1,857,000	$ 1,913,900	$ 1,970,158	$ 2,029,260	$ 2,090,171	$ 2,152,876	$ 2,217,462	$ 2,283,986
Root Control	WRC Sewer Fund	$ 300,000	$ 300,000	$ 271,219	$ 282,164	$ 293,902	$ 126,746	$ 117,918	$ 120,456	$ 113,270	$ 166,671	$ 170,271	$ 121,412
Meter Replacement	WRC Sewer Fund	$ 230,000	$ 1,207,000	$ 1,200,120	$ 24,630	$ 20,270	$ 27,004	$ 29,760	$ 61,494	$ 63,320	$ 65,220	$ 67,100	$ 69,213
Vehicles: Dump Truck, 2 Vactor Lease Payments, 2 Flatbed Trucks, 1 Tractor	WRC Sewer Fund	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Biosolids Load Out Facility	Water Pollution Control	$ -	$ 2,060,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Biosolids Load Out Facility Engineering	Water Pollution Control	$ 116,350	$ 92,603	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Engineering for RO Plant	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CPO Bar Screen Replacement	Water Pollution Control	$ 1,354,547	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Final Tank Retrofit Four of Eight Tanks	Water Pollution Control	$ 537,336	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
NWPS Blower Replacement	Water Pollution Control	$ 440,525	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
RTS Flowmeter	Water Pollution Control	$ 32,497	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Batt B Actuator	Water Pollution Control	$ 19,973	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Sigma Sampler	Water Pollution Control	$ 11,600	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CPO Units	Water Pollution Control	$ 90,970	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TAFS Automation	Water Pollution Control	$ 155,700	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
APS Conveyor	Water Pollution Control	$ 72,993	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Lighting Upgrades	Water Pollution Control	$ 159,063	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Disinfection Upgrades	Water Pollution Control	$ 71,575	$ 154,500	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Replacement of Battery A Grit	Water Pollution Control	$ -	$ -	$ 1,000,000	$ -	$ 1,857,000	$ 478,477	$ 119,478	$ 120,667	$ 119,477	$ 120,477	$ 124,392	$ 123,413
Third Ave Pumping Station Electrical Switchgear	Water Pollution Control	$ -	$ -	$ 1,000,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Final Tank Coatings	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Major Concrete Repairs	Water Pollution Control	$ -	$ 113,397	$ 265,225	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Aeration Blower Replacement	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Aeration Blower Controls	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Major Valve Repairs	Water Pollution Control	$ -	$ -	$ 242,720	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Replacement of Lift Station 6	Water Pollution Control	$ -	$ -	$ 500,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
HVAC Upgrades	Water Pollution Control	$ -	$ 472,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Primary Tank Rebuild	Water Pollution Control	$ -	$ 77,250	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Concrete Coatings	Water Pollution Control	$ -	$ -	$ -	$ 598,314	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Influent Box Concrete Repairs	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Third Ave Pipe Repair	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Floor Roofing	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Replacement Pump for Third Ave Pumping Station	Water Pollution Control	$ -	$ -	$ -	$ -	$ 562,734	$ 579,617	$ 597,006	$ -	$ -	$ -	$ -	$ -
Replacement Pumps for EPS	Water Pollution Control	$ -	$ -	$ -	$ 355,636	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Replacement Pumps for NWPS	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Battery A Grit Piping	Water Pollution Control	$ -	$ -	$ -	$ 494,727	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Air Diffuser Upgrades Battery D	Water Pollution Control	$ -	$ -	$ -	$ 160,270	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
4160 Volt Switchgear	Water Pollution Control	$ -	$ -	$ -	$ 2,155,454	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Battery A Isolation Gates	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
EPS Switchgear	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Addition to Vehicle Storage Building	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
18th Station Ferry Hill Upgrades	Water Pollution Control	$ -	$ -	$ -	$ 91,944	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Final Effluent Motor Replacement	Water Pollution Control	$ -	$ -	$ -	$ 160,270	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Lighting Panel Upgrades	Water Pollution Control	$ -	$ -	$ -	$ 87,413	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Blower Header Insulation	Water Pollution Control	$ -	$ -	$ -	$ 437,091	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Battery A Influent Meter Replacement	Water Pollution Control	$ -	$ -	$ -	$ 109,273	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Sludge Cake Storage	Water Pollution Control	$ -	$ -	$ -	$ 727,818	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Heavy Mobile Equipment	Water Pollution Control	$ -	$ -	$ -	$ 163,909	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Air Diffuser Upgrades Battery A	Water Pollution Control	$ -	$ 123,700	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Roadway Improvements	Water Pollution Control	$ -	$ 92,400	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Final Tank Retrofit Last Four Tanks	Water Pollution Control	$ -	$ 695,250	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Vehicles	Water Pollution Control	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Ongoing Sytem Rehabilitation	WRC Sewer Fund	$ -	$ -	$ 2,131,800	$ 2,195,454	$ 1,378,508	$ 4,647,098	$ 4,776,079	$ 4,919,362	$ 5,067,080	$ 5,219,092	$ 5,375,665	$ 5,536,935
		$ 6,206,674	$ 7,200,100	$ 9,270,065	$ 9,795,194	$ 11,764,636	$ 8,172,922	$ 7,910,149	$ 7,563,724	$ 7,790,636	$ 8,021,356	$ 8,256,099	$ 8,513,032

TABLE 25: WASTEWATER CIP FINANCING PLAN

Water Construction Fund/Account		Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Beginning CIP Fund Balance													
Beginning Year Construction Fund Balance		$ -	$ 294,324	$ 74,024	$ 301,758	$ 18,573	$ 764,047	$ 91,165	$ 150,717	$ 88,993	$ 296,357	$ 272,002	$ 68,916
Carry Over CIP from Previous Year		$											
Net Funds Available for Current CIP		$ -	$ 294,324	$ 74,024	$ 301,758	$ 18,573	$ 764,047	$ 91,165	$ 150,717	$ 88,993	$ 296,357	$ 272,002	$ 68,916
Sources of CIP Financing													
Wastewater Revenue Bonds Issued		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Wastewater Commercial Paper Program		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Wastewater Rate Revenue Financing (Cash)		$ 5,500,000	$ 7,000,000	$ 9,500,000	$ 9,500,000	$ 12,500,000	$ 7,500,000	$ 8,000,000	$ 7,500,000	$ 8,000,000	$ 8,000,000	$ 8,000,000	$ 8,500,000
SDC Receipts Used for CIP Financing													
Other Sources of CIP Financing													
		$ 5,500,000	$7,294,324	$ 9,574,024	$ 9,801,758	$ 12,518,573	$ 8,264,047	$ 8,091,165	$ 7,650,717	$ 8,088,993	$ 8,296,357	$ 8,272,002	$ 8,568,916
Uses of CIP Funds													
Total WGC Sewer Fund		$ 2,720,000	$3,307,200	$ 5,550,118	$ 4,425,544	$ 5,800,010	$ 7,013,800	$ 7,224,016	$ 7,440,737	$ 7,660,959	$ 7,890,878	$ 8,130,604	$ 8,374,815
Total Water Pollution Control		$ 3,085,676	$3,883,100	$ 3,713,150	$ 5,357,641	$ 6,970,708	$ 1,159,774	$ 716,481	$ 122,987	$ 129,677	$ 134,477	$ 134,382	$ 138,423
Additional Uses													
Total Current Year CIP		$ 5,805,676	$7,220,300	$ 9,272,268	$ 9,783,185	$ 11,754,526	$ 8,172,882	$ 7,940,446	$ 7,563,724	$ 7,790,636	$ 8,024,355	$ 8,265,986	$ 8,513,238
Bond Issuance Costs		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Refunding of Commercial Paper		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
EQUALS Ending CIP Fund Balance		$294,324	$74,024	$301,758	$18,573	$764,047	$91,165	$150,717	$88,993	$298,357	$272,002	$68,916	($98,122)
Target Balance (% of Next Years CIP)	25.00%	$ 1,905,075	$2,318,067	$ 2,445,798	$ 2,938,631	$ 2,043,221	$ 1,985,112	$ 1,890,997	$ 1,947,869	$ 2,008,089	$ 2,066,271	$ 2,128,260	$ -
Variance from Target		($1,610,751)	($2,244,042)	($2,144,039)	($2,920,058)	($1,279,173)	($1,893,947)	($1,740,214)	($1,860,966)	($1,709,732)	($1,794,259)	($2,121,345)	($98,122)

3.3.4 Wastewater Cash Flow Forecast

The final step in the development of the wastewater utility financial plan involves the preparation of a comprehensive cash flow forecast. A summary of the wastewater cash flow forecast is presented in Table 26 on the following page. The key components of the forecast are Financial Plan Inputs, Revenues, Expenditures, and Operating Performance.

The Financial Plan Inputs component indicates the forecast rate revenue increases. These increases were determined in consultation with City staff and are designed to:

- Ensure recovery of wastewater utility O&M expenditures
- Provide cash financing for the wastewater capital projects outlined in the CIP
- Minimize risk via the build-up of operating reserves equivalent to 90 days of O&M and Debt Service

The Revenues component indicates the revenue at existing rates discussed previously, non-rate revenue and the additional revenue generated by the rate revenue increases shown in the inputs section. Given the forecast of wastewater demand, O&M and capital expenditures and the 90 Day operating benchmark, the "additional revenue" line represents the amount of revenue needed—above existing rate revenues—to ensure adequate recovery of the wastewater utility's revenue requirement going forward.

The Expenditures component indicates the major sources of expenditures for the City's wastewater utility: O&M expenditures, Capital expenditures (Rate Revenue Financing and Debt Service) and Transfers to the Operating Reserve.

The Operating performance section indicates the year end position of the wastewater utility with respect to a few key factors. Included are the estimated operating reserve balance, the target reserve balance (90 Days of O&M and Debt Service), and the construction fund ending balance.

TABLE 26: WASTEWATER CASH FLOW FORECAST

Wastewater Utility	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
FINANCIAL PLAN INPUTS												
Cumulative % Increase		7.5%	15.0%	23.1%	28.6%	31.2%	33.8%	36.5%	39.2%	42.0%	44.8%	47.7%
Annual % Increase in Rate Revenues	0.0%	7.5%	7.0%	7.0%	4.5%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
REVENUES												
Grand Total Wastewater Revenue at Existing Rates	$ 21,777,374	$ 21,777,374	$ 21,777,374	$ 21,777,374	$ 21,777,374	$ 21,777,374	$ 21,777,374	$ 21,777,374	$ 21,777,374	$ 21,777,374	$ 21,777,374	$ 21,777,374
Additional Revenue from Rate Increases	$ -	$ 2,083,330	$ 1,173,500	$ 6,410,100	$ 7,948,500	$ 8,665,000	$ 9,391,800	$ 10,135,200	$ 10,893,500	$ 11,668,900	$ 12,456,800	$ 13,260,600
Total Non-Rate Revenues	$ 395,372	$ 423,552	$ 423,948	$ 426,058	$ 422,741	$ 435,354	$ 591,068	$ 520,110	$ 536,407	$ 552,350	$ 567,990	$ 580,618
Add Transfers in From General Fund	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Rate and Non-Rate Revenues	*$ 22,173,246*	*$ 30,284,237*	*$ 32,371,323*	*$ 34,613,532*	*$ 36,148,615*	*$ 36,879,728*	*$ 37,670,242*	*$ 38,432,685*	*$ 39,207,281*	*$ 33,996,565*	*$ 40,801,164*	*$ 41,518,453*
EXPENDITURES												
Total O&M Expenditures	*$ 24,323,627*	*$ 23,053,392*	*$ 23,394,571*	*$ 24,091,669*	*$ 24,812,101*	*$ 25,557,113*	*$ 26,327,481*	*$ 27,124,115*	*$ 27,947,951*	*$ 28,800,000*	*$ 29,681,251*	*$ 30,592,770*
Grand Total Existing and Proposed Debt Service	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Wastewater Rate Revenue Financing (Cash)	$ 3,500,000	$ 7,000,000	$ 9,500,000	$ 6,600,000	$ 12,000,000	$ 8,000,000	$ 8,000,000	$ 7,600,000	$ 8,000,000	$ 8,000,000	$ 8,000,000	$ 8,500,000
Wastewater Transfer to Equipment Replacement Fund	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Capital Expenditures	*$ 3,500,000*	*$ 7,000,000*	*$ 9,500,000*	*$ 6,600,000*	*$ 12,000,000*	*$ 8,000,000*	*$ 8,000,000*	*$ 7,600,000*	*$ 8,000,000*	*$ 8,000,000*	*$ 8,000,000*	*$ 8,500,000*
Add Net Surplus/Deficit	*$ (1,650,381)*	*$ 230,845*	*$ (522,248)*	*$ 1,021,863*	*$ (663,486)*	*$ 3,322,615*	*$ 3,342,761*	*$ 3,308,570*	*$ 3,259,330*	*$ 3,196,564*	*$ 3,119,913*	*$ 2,525,683*
GROSS REVENUE REQUIREMENTS												
O&M	$ 24,323,627	$ 23,053,392	$ 23,394,571	$ 24,091,669	$ 24,812,101	$ 25,557,113	$ 26,327,481	$ 27,124,115	$ 27,947,951	$ 28,800,000	$ 29,681,251	$ 30,592,770
Capital	$ 3,500,000	$ 7,000,000	$ 9,500,000	$ 6,600,000	$ 12,000,000	$ 8,000,000	$ 8,000,000	$ 7,600,000	$ 8,000,000	$ 8,000,000	$ 8,000,000	$ 8,500,000
Operating Surplus/Deficit	$ (1,650,381)	$ 230,845	$ (522,248)	$ 1,021,863	$ (663,486)	$ 3,322,615	$ 3,342,761	$ 3,308,570	$ 3,259,330	$ 3,196,564	$ 3,119,913	$ 2,525,683
Total Gross Revenue Requirements	*$ 22,173,246*	*$ 30,284,237*	*$ 32,371,323*	*$ 34,613,532*	*$ 36,148,615*	*$ 36,879,728*	*$ 37,670,242*	*$ 38,432,685*	*$ 39,207,281*	*$ 33,996,565*	*$ 40,801,164*	*$ 41,518,453*
OPERATING PERFORMANCE												
Ending Operating Reserve Balance	$ 5,307,252	$ 5,538,097	$ 5,015,249	$ 6,037,212	$ 5,373,726	$ 17,696,341	$ 21,039,102	$ 24,347,672	$ 28,106,991	$ 31,303,555	$ 34,423,569	$ 36,949,252
Target Operating Reserve Balance	$ 6,080,907	$ 5,763,348	$ 5,848,668	$ 6,022,892	$ 6,203,025	$ 6,389,278	$ 6,581,870	$ 6,781,029	$ 6,986,990	$ 7,200,000	$ 7,420,313	$ 7,648,192
Variance From Target	$ (773,655)	$ (225,251)	$ (833,419)	$ 14,320	$ (829,300)	$ 11,307,063	$ 14,457,232	$ 17,566,643	$ 21,120,001	$ 24,103,555	$ 27,003,256	$ 29,301,060
Conservation Fund Ending Balance	*$ 793,391*	*$ 74,092*	*$ 309,758*	*$ 18,573*	*$ 264,027*	*$ 91,165*	*$ 150,717*	*$ 85,998*	*$ 296,357*	*$ 972,309*	*$ 6,916*	*$ (6,172)*
Stand Alone DSCR	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*	*N/A*

4. WATER UTILITY COST OF SERVICE STUDY

Following the determination of the water utility financial plan, the next steps are to summarize the water utilities total rate revenue requirement, determine the proportion of that requirement which is attributable to each customer class, and calculate the volumetric and fixed rates.

4.1 WATER REVENUE REQUIREMENT FROM RATES

Table 27 below indicates the level of water utility expenditures which must be recovered from rates in the FY 2015 test year and each year of the forecast period. It is comprised of the forecast water utility O&M and capital expenditures, and is offset by non-rate revenues the water utility is anticipated to receive over the forecast period. The total test year revenue requirement is approximately $34 Million.

TABLE 27: WATER REVENUE REQUIREMENTS

OPERATION AND MAINTENANCE EXPENDITURES Revenue/Expense Item	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Total Dept 536.100-Utilities - Water Administration	$ 7,492,304	$ 7,778,511	$ 7,946,462	$ 8,119,197	$ 8,419,955	$ 8,651,940	$ 8,925,374	$ 9,180,486	$ 9,457,512	$ 9,736,696	$ 10,024,288	$ 10,320,548
Total Dept 536.208 Utilities - Water Cross Connection P	$ 104,606	$ 108,204	$ 112,037	$ 116,015	$ 120,142	$ 124,428	$ 128,872	$ 133,488	$ 138,279	$ 143,264	$ 148,419	$ 153,782
Total Dept 540.100-Water Service Center Management	$ 1,223,240	$ 1,244,890	$ 1,284,276	$ 1,324,940	$ 1,366,925	$ 1,410,276	$ 1,455,037	$ 1,501,257	$ 1,548,985	$ 1,598,273	$ 1,649,172	$ 1,701,738
Total Dept 540.300 WSC - Capital Improvements	$	$	$	$	$	$	$	$	$	$	$	$
Total Dept 540.200-Water Meter Reading - Water	$ 730,577	$ 533,281	$ 551,828	$ 570,642	$ 590,350	$ 610,779	$ 631,957	$ 653,913	$ 676,677	$ 700,281	$ 724,759	$ 750,145
Total Dept 540.202 Water Distribution Mains	$ 3,260,697	$ 3,868,236	$ 3,821,147	$ 3,665,207	$ 4,090,691	$ 4,231,081	$ 4,376,668	$ 4,527,341	$ 4,683,619	$ 4,845,804	$ 5,013,523	$ 5,187,809
Total Dept 545.200-Water Plant - Operations	$ 21,845,158	$ 5,420,888	$ 5,608,034	$ 6,300,105	$ 6,482,080	$ 6,670,603	$ 6,865,522	$ 7,066,291	$ 7,277,975	$ 7,495,250	$ 7,720,402	$ 7,953,729
Total Dept 545.201-Water Plant Maintenance	$ 1,288,821	$ 1,029,491	$ 1,064,136	$ 1,740,751	$ 1,798,301	$ 1,800,043	$ 1,922,675	$ 1,987,597	$ 2,055,315	$ 2,120,091	$ 2,187,902	$ 2,272,219
Total Dept 545.202-Water Plant - Dam Operations	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 545.203-Water Plant - Dam Maintenance	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 545.300-Water Plant - Capital Improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 900.101-Transfer out to fund 101	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000	$ 1,130,000
Total Operation and Maintenance Expenditures	$ 36,865,206	$ 21,483,441	$ 22,140,012	$ 23,218,357	$ 23,599,504	$ 24,705,148	$ 25,434,603	$ 26,188,715	$ 26,968,380	$ 27,774,448	$ 28,607,924	$ 29,469,788
CAPITAL EXPENDITURES Revenue/Expense Item	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Grand Total Existing and Proposed Debt Service	$ 2,747,946	$ 2,742,821	$ 2,746,423	$ 9,643,446	$ 6,644,008	$ 9,643,196	$ 9,636,827	$ 9,192,721	$ 8,676,674	$ 8,066,623	$ 8,423,746	$ 6,900,000
Water Rate Revenue Financing (Cash)	$ 7,000,000	$ 9,000,000	$ 8,500,000	$ 6,500,000	$ 6,000,000	$ 6,500,000	$ 7,500,000	$ 7,500,000	$ 7,500,000	$ 8,000,000	$ 8,500,000	$ 8,500,000
Add Net Operating Surplus/(Deficit)	$ (2,752,779)	$ 2,087,727	$ 3,665,893	$ (791,513)	$ 163,485	$ 125,662	$ (697,317)	$ (83,936)	$ 492,328	$ 854,663	$ (166,869)	$ 1,390,788
Add Water Transfers to Equipment Replacement Fu	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Capital Expenditures	$ 8,995,168	$ 13,830,548	$ 14,912,316	$ 15,356,933	$ 15,807,474	$ 16,268,858	$ 16,542,510	$ 16,608,786	$ 16,669,002	$ 16,720,287	$ 16,757,077	$ 16,790,788
GROSS REVENUE REQUIREMENT FROM RATES	$ 45,860,374	$ 35,313,989	$ 37,052,328	$ 38,573,761	$ 39,406,978	$ 40,974,006	$ 41,977,120	$ 42,797,501	$ 43,637,382	$ 44,494,735	$ 45,365,002	$ 46,260,556
NON-RATE REVENUES Revenue/Expense Item	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Total Non-Rate Revenues	$ 886,000	$ 913,314	$ 931,844	$ 927,898	$ 926,809	$ 929,131	$ 931,145	$ 930,726	$ 933,187	$ 936,960	$ 936,927	$ 942,491
NET REVENUE REQUIREMENT FROM RATES	$ 42,974,374	$ 34,400,675	$ 36,120,575	$ 37,745,075	$ 38,578,475	$ 40,044,875	$ 41,045,575	$ 41,866,875	$ 42,704,175	$ 43,558,275	$ 44,428,475	$ 45,318,075

4.2 WATER REVENUE REQUIREMENTS BY CUSTOMER CLASS

Following the development of the total test year revenue requirement, the proportion of the total revenue requirement allocable to each customer class must be determined. This allocation represents the level of revenues that must be recovered from each customer class, given the operational demands that class places on the water utility system. This allocation is performed via the multi-step process described below.

4.2.1 O&M Allocation to Function Categories

The first step in determining revenue requirements by customer class is to allocate the test year O&M revenue requirement to functional categories. These categories are functions that the water utility must perform in order to deliver water service to City customers. For the water utility they are: Administrative and General, Customer Service, Source of Supply, Pumping, Treatment, Storage, Transmission Mains, Distribution Mains, Meters and Services and Hydrants.
The O&M allocations, by department, are shown in Table 28 on the following page.

TABLE 28: WATER O&M ALLOCATION TO FUNCTIONAL CATEGORIES

DEPARTMENT	Total $ Allocation	Administrative and General	Customer Service	Source of Supply	Pumping	Treatment	Storage	Transmission Mains	Distribution Mains	Meters and Services	Hydrants
Total Dept 536.100-Utilities - Water Administration	$ 7,718,511	$ 7,718,511	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 536.206-Utilities - Water Cross Connection P	$ 109,204	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 109,204	$ -	$ -
Total Dept 540.100-Water Service Center Management	$ 1,244,890	$ -	$ 1,244,890	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 540.300-WSC - Capital improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 540.200-Wsc-Meter Reading - Water	$ 533,201	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 533,201	$ -
Total Dept 540.202-Wsc-Water Distribution Mains	$ 3,698,238	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,698,238	$ -	$ -
Total Dept 545.200 Water Plant - Operations	$ 6,130,868	$	$	$	$	$ 6,130,868	$	$	$	$	$
Total Dept 545.201-Water Plant Maintenance	$ 1,529,451	$ -	$ -	$ -	$ -	$ 1,529,451	$ -	$ -	$ -	$ -	$ -
Total Dept 545.202-Water Plant - Dam Operations	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 545.203-Water Plant - Dam Maintenance	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 545.300-Water Plant - Capital improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 966.101-Transfers out to fund 101	$ 1,100,000	$ 1,100,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
GRAND TOTAL WATER UTILITY	$ 21,483,411	$ 8,818,511	$ 1,244,890	$	$	$ 7,660,319	$	$	$ 3,808,440	$ 533,201	$

4.2.2 O&M Allocation to Cost Components

Once O&M costs have been allocated to functional categories, the total O&M revenue requirement allocated to each functional category must be further allocated based on the operational need that function is designed to fulfill. For this allocation RFC has utilized the "Base Extra Capacity" method described in the American Water Works Association ("AWWA") publication, "Manual of Water Supply Practices M1, Principles of Rates, Fees and Charges (M1)."

The cost components utilized in this study are: base demand, or water demand under average conditions; maximum day and hour demand, or water demand under peak load conditions; customer service, for functions related to customer billing and service; and fire protection, for functions pertaining to the use of public hydrants and private fire lines. Table 29 below indicates the classification of water O&M expenditures to the cost components described above.

TABLE 29: WATER O&M ALLOCATION TO COST COMPONENTS

		$ Allocation						
			Max Day	Max Hour	Customer Units		Fire Protection		
		Base	Extra	Extra	Equivalent Meters		Private Fire		Public Fire
FUNCTIONAL CLASSIFICATION	Total $ Allocation	Demand	Capacity	Capacity	& Services	Bills	Equivalent Connections	Bills	Hydrants
Administrative and General	$ 8,843,511	$ 2,791,751	$ 4,451,013	$ 360,455	$ 1,245,291	$ -	$ -	$ -	$ -
Customer Service	$ 1,244,890	$ -	$ -	$ -	$ 1,244,890	$ -	$ -	$ -	$ -
Source of Supply	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Pumping	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Treatment	$ 7,050,319	$ 2,717,572	$ 4,332,747	$ -	$ -	$ -	$ -	$ -	$ -
Storage	$	$	$	$	$	$	$	$	$
Transmission Mains	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Distribution Mains	$ 3,803,440	$ 1,268,813	$ 2,022,926	$ 514,701	$ -	$ -	$ -	$ -	$ -
Meters and Services	$ 533,281	$ -	$ -	$ -	$ 533,281	$ -	$ -	$ -	$ -
Hydrants	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	$ 21,483,441	$ 6,778,137	$ 10,806,686	$ 875,157	$ 3,023,462	$ -	$ -	$ -	$ -

4.2.3 Capital Cost Allocation to Functional Components

Similar to the allocation of the O&M revenue requirement described in the previous section, the capital revenue requirement must be allocated to functional categories. Table 30 on the following page indicates the functional allocation of capital costs.

The basis for the allocation of capital costs was the existing level of water utility investment in fixed assets. The existing net book value of each major asset class was allocated to the functional categories. The total capital revenue requirement, approximately 14 Million in the test year, was then allocated according to the proportion of existing investment in each functional category. As indicated, a large proportion of investment in fixed assets pertains to upgrades to the City's water treatment plant. As such, the majority of the capital revenue requirement (68%) has been allocated to the treatment function.

TABLE 30: WATER CAPITAL ALLOCATION TO FUNCTIONAL CATEGORIES

Allocation of Capital Costs to Functional Categories	Total	Administrative and General	Customer Service	Source of Supply	Pumping	Treatment	Storage	Transmission Mains	Distribution Mains	Meters and Services	Hydrants
Breakdown of Fixed Assets by Functional Category	100%	0.21%	0.00%	9.53%	0.48%	68.39%	0.00%	0.00%	19.26%	2.09%	0.04%
Total Capital Expenditures	$ 13,030,540	$ 28,011	$ -	$ 1,317,605	$ 66,010	$ 9,450,193	$ -	$ -	$ 2,509,037	$ 266,670	$ 5,013

$ Allocation of Water Fixed Assets to Functional Categories FIXED ASSET CATEGORY	Net Book Value	Administrative and General	Customer Service	Source of Supply	Pumping	Treatment	Storage	Transmission Mains	Distribution Mains	Meters and Services	Hydrants
01Land	$ 724,317	$ 73,998	$ -	$ 503,947	$ 8,389	$ 34,999	$ -	$ -	$ 5,050	$ -	$ -
02Construction-in-Progress	$ 755,801	$ 1,810	$ -	$ 71,002	$ 3,607	$ 516,702	$ -	$ -	$ 145,540	$ 15,020	$ 307
20Land Improvement	$ 198,868	$ 425	$ -	$ 18,509	$ 948	$ 135,875	$ -	$ -	$ 38,288	$ 4,181	$ 81
21Building Improvements	$ 3,404,902	$ 7,418	$ -	$ 330,084	$ 10,537	$ 2,309,448	$ -	$ -	$ 667,339	$ 72,570	$ 1,400
23Dist Plant - Hydrants	$ 18,458	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 18,458
24Dist Plant - Water mains	$ 7,170,835	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 7,170,835	$ -	$ -
25Dist Plant - Meters	$ 349,348	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 349,348	$ -
26Dist - Struc & Improv	$ 029,090	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 029,090	$ -	$ -
27Lab Equip	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
28Office Equip & Furn.	$ 12,823	$ 12,823	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
29power operated equip.	$ 6,000	$ 13	$ -	$ 572	$ 29	$ 4,103	$ -	$ -	$ 1,156	$ 126	$ 2
31Pump Plant (Electric Pump Equip)	$ 120,581	$ -	$ -	$ -	$ 120,581	$ -	$ -	$ -	$ -	$ -	$ -
32Pump Plant - Struc & Imp	$ 88,574	$ -	$ -	$ -	$ 88,574	$ -	$ -	$ -	$ -	$ -	$ -
33Source of Supplies - Main (Pipe Line)	$ 2,476,415	$ -	$ -	$ 2,476,415	$ -	$ -	$ -	$ -	$ -	$ -	$ -
34Source of Water Supplies - Structure	$ 783,912	$ -	$ -	$ 783,912	$ -	$ -	$ -	$ -	$ -	$ -	$ -
35Tools, Cars, & Garage Eq	$ 3,080	$ 7	$ -	$ 256	$ 15	$ 2,107	$ -	$ -	$ 559	$ 65	$ 1
36Vehicle	$ 343,753	$ 747	$ -	$ 33,226	$ 1,686	$ 238,199	$ -	$ -	$ 67,172	$ 7,306	$ 142
37 Treatment - Struc & Impr	$ 384,045	$ -	$ -	$ -	$ -	$ 384,045	$ -	$ -	$ -	$ -	$ -
38Treatment Plant Equip	$ 116,382	$ -	$ -	$ -	$ -	$ 116,382	$ -	$ -	$ -	$ -	$ -
DWRLF Phase 1/Seg 1 Total	$ 3,978,530	$ -	$ -	$ -	$ -	$ 3,978,530	$ -	$ -	$ -	$ -	$ -
DWRLF Phase 1/Seg 2 Total	$ 1,366,011	$ -	$ -	$ -	$ -	$ 1,366,011	$ -	$ -	$ -	$ -	$ -
DWRLF Phase 1/Seg 3 Total	$ 4,388,566	$ -	$ -	$ -	$ -	$ 4,388,566	$ -	$ -	$ -	$ -	$ -
DWRLF Phase 1/Seg 4 Total	$ 7,679,166	$ -	$ -	$ -	$ -	$ 7,679,166	$ -	$ -	$ -	$ -	$ -
DWRLF Phase 1/Seg 5 Total	$ 6,885,886	$ -	$ -	$ -	$ -	$ 6,885,886	$ -	$ -	$ -	$ -	$ -
Total Water Fixed assets	$ 45,328,750	$ 97,049	$ -	$ 4,318,386	$ 216,343	$30,998,634	$ -	$ -	$ 8,730,557	$ 949,401	$ 18,397
% Breakdown	100.00%	0.21%	0.00%	9.53%	0.48%	68.39%	0.00%	0.00%	19.26%	2.09%	0.04%

4.2.4 Capital Cost Allocation to Cost Components

As with the allocation of the O&M revenue requirement described above, the functionally allocated capital revenue requirement must also be allocated according to the operational need for which each function is designed to fulfill.

The "Base Extra Capacity" method described in AWWA M1 is also used to allocate the capital revenue requirement to cost components. Table 31 below summarizes this allocation.

TABLE 31: WATER CAPITAL ALLOCATION TO COST COMPONENTS

		$ Allocation								
			Max Day	Max Hour	Customer Units		Fire Protection		
FUNCTIONAL CLASSIFICATION	Total $ Allocation	Base Demand	Extra Capacity	Extra Capacity	Equivalent Meters & Services	Bills	Private Fire Equivalent Connections	Bills	Public Fire Hydrants
Administrative and General	29,611	-	-	-	29,611	-	-	-	-
Customer Service	-	-	-	-	-	-	-	-	-
Source of Supply	1,317,605	1,317,605	-	-	-	-	-	-	-
Pumping	66,010	25,444	40,566	-	-	-	-	-	-
Treatment	9,458,193	3,645,697	5,812,497	-	-	-	-	-	-
Storage	-	-	-	-	-	-	-	-	-
Transmission Mains	-	-	-	-	-	-	-	-	-
Distribution Mains	2,633,837	887,946	1,445,691	360,200	-	-	-	-	-
Meters and Services	239,678	-	-	-	289,678	-	-	-	-
Hydrants	5,613	5,613	-	-	-	-	-	-	-
Total Capital Expenditures	13,830,548	5,882,305	7,298,754	360,200	319,289	-	-	-	-

4.2.5 Non-Rate Revenue Allocation to Cost Components

Non-rate revenue must be excluded from the O&M and Capital revenue requirements as these amounts are an offset to the revenue requirement which will be recovered from rates. Consequently, non-rate revenues are allocated to the cost components so that they can be removed from the total revenue requirement. In this case, non-rate revenues were allocated proportionally according to the total O&M revenue requirement allocation and can be seen in Table 32 on the below.

TABLE 32: WATER NON-RATE REVENUE ALLOCATION TO COST COMPONENTS

			$ Allocation							
				Max Day	Max Hour	Customer Units		Fire Protection		
ACCOUNT CODE	DESCRIPTION	Total $ Allocation	Base Demand	Extra Capacity	Extra Capacity	Equivalent Meters & Services	Bills	Private Fire Equivalent Connections	Bills	Public Fire Hydrants
591-536.100-615.000	Fees - Utilities -Bike Regn	-	-	-	-	-	-	-	-	-
591-536.100-642.000	Charges For Sale	-	-	-	-	-	-	-	-	-
591-536.100-648.000	Scrap Sales	5,000	1,576	2,515	204	704	-	-	-	-
591-536.100-657.000	Fines - Turn- On Fees - Utilities	120,000	37,861	60,363	4,888	16,888	-	-	-	-
591-536.100-657.100	Forfeited Discount - Utilities	350,000	110,427	176,058	14,258	49,257	-	-	-	-
591-536.100-665.000	Interest Earned On Bank Ctg &	27,314	8,618	13,740	1,113	3,844	-	-	-	-
591-536.100-670.000	Rental - City Property	-	-	-	-	-	-	-	-	-
591-536.100-673.400	Sale Of Fixed Assets	25,000	7,888	12,576	1,018	3,518	-	-	-	-
591-536.100-696.000	Discounts Earned	-	-	-	-	-	-	-	-	-
591-536.100-699.999	Prior Year Revenue	-	-	-	-	-	-	-	-	-
591-540.100-643.000	Meter Water Sales	-	-	-	-	-	-	-	-	-
591-540.100-648.000	Scrap Sales	-	-	-	-	-	-	-	-	-
591-540.100-670.000	Rental - City Property	-	-	-	-	-	-	-	-	-
591-540.100-677.000	Reimbursements	-	-	-	-	-	-	-	-	-
591-540.206-601.000	Mrchnd & Job Charge Service	150,000	47,326	75,454	6,110	21,110	-	-	-	-
591-540.204-642.000	Charges For Sale	-	-	-	-	-	-	-	-	-
591-540.206-601.900	Mrchnd & Job Charge Service	236,000	74,459	118,714	9,614	33,213	-	-	-	-
591-545.200-615.000	Fees - Water testing - Utilites	-	-	-	-	-	-	-	-	-
591-545.200-642.000	Charges For Sale									
591-545.200-648.000	Scrap Sales	-	-	-	-	-	-	-	-	-
591-545.200-671.300	Other Income	-	-	-	-	-	-	-	-	-
591-545.200-677.000	Reimbursements	-	-	-	-	-	-	-	-	-
591-545.203-696.000	Discounts Earned	-	-	-	-	-	-	-	-	-
Add Transfers In from General Fund		-	-	-	-	-	-	-	-	-
Total Non-Rate Revenues		913,314	288,155	459,419	37,205	128,535	-	-	-	-

4.2.6 *Determination of Maximum Day and Hour Peaking Factors*

Once each component of the revenue requirements has been determined, maximum day and hour peaking factors for each customer class are estimated. These are the basis upon which the maximum day and hour cost allocations, determined in the previous step, are allocated to each customer class. In general, the guidelines for determining maximum day and hour peaking factors outlined in AWWA M1 were the basis for this component of the analysis.

The maximum day demand for each customer class is estimated as the average usage per day in the highest usage month, divided by the annual average usage per day, weighted by the ratio of maximum day demand to the average demand in the maximum month for the entire water system. In other words:

- System Max Day to Average Day in Max Month=(System Max Day Demand)/(System Max Month/30)
- Class Maximum Day=[(Class Max Month/30)/(Class Annual Total)/365]*[System Max Day to Average Day in Max Month]

The weighting occurs because the exact maximum day, by customer class is not known, but is assumed to have the same relationship to the average day in the maximum month as the entire system. As the exact customer class maximum hour is not known, a similar weighting process occurs to determine the customer class maximum hour demands:

- System Max Hour to Average Day in Max Month=(System Max Hour)/(System Max Month/30)
- Class Maximum Hour=Class Max Day*System Max Hour to Average Day in Max Month

The determination of customer class peaking factors is shown in Table 33 on the below.

TABLE 33: WATER PEAKING FACTOR CALCULATIONS

System Production Metrics

	Annual Total	System Annual Average Day	System Max Month	Average Day in Max Month	System Max Day	System Max to Average Day	System Max Day to Average Day in MM	System Max Hour Peak (Estimated)	System Max Hour	System Max Hour to Average Day	System Max Hour to Average Day in MM
Total System	3,485,862	9,550	426,416	14,214	24,777	2.59	1.74	3.00	20,651	3.00	2.02

Determination of Customer Class Peaking Factors

Customer Class	Annual Total	Max Month	Max Day in Max Month	Annual Average Day	Max to Average Day Ratio	System Max to Average Day	Max Day Peaking Factor	System Max Hour to Average Day	Max Hour Peaking Factor
INSIDE CITY RETAIL									
Total Inside City Residential	1,855,952	220,002	7,333	5,088	1.44	1.75	2.52	1.95	4.92
Total Inside City Commercial/Industrial	1,573,978	199,367	6,646	4,326	1.54	1.75	2.69	1.95	5.24
Total Inside City Lawn	13,389	5,105	170	37	4.64	1.75	8.12	1.95	15.83
Total Inside City	3,449,319	424,474	14,149	9,450	1.50	1.75	2.62	1.95	5.11
OUTSIDE CITY RETAIL									
Total Outside City Residential	8,030	1,210	41	24	1.71	1.75	3.00	1.95	5.85
Total Outside City Commercial/Industrial	27,943	4,257	142	77	1.85	1.75	3.24	1.95	6.33
Total Outside City Lawn	-	-	-	-		1.75		1.95	
Total Outside City	35,573	4,864	162	100	1.62	1.75	2.83	1.95	5.52
Total System	3,485,892	426,416	14,214	9,550	1.49				

4.2.7 *Calculation of Units of Service*

The next step in the cost allocation process is to summarize the units of service, which are the basis for the allocation of the total revenue requirement to each of the customer classes. The units are Base units, Maximum Day Extra Capacity units, Maximum Hour Extra Capacity units, Customer units and Direct Fire Protection Units and are indicated in Table 34 on the following page.

Base units are the annual usage for each customer class. Maximum Day Extra Capacity units represent the water demand in excess of that which is used on an average day for that customer class, and is a function of the average daily usage and the customer class peaking factor determined in the prior step.

As an example, the residential class is forecast to use 1.7 Million CCF on an annual basis in the test year. This equates to 4,700 CCF/day on an average day. Based on the maximum day peaking factor determined in the previous step, Residential customers, on their highest usage day of the year, typically use 1.7 times their average day usage, or around 8,200 CCF. The difference between the maximum day and average day, around 3,500 CCF, represents the Maximum Day Extra Capacity units.

A similar calculation is used to determine the Maximum Hour Extra Capacity Units, which are simply the usage forecast in the highest hour of the test year, less the maximum day demand.

Customer Units are equivalent meters, and customer monthly bills. The number of bills for each customer class was ascertained via an examination of the billing data from the City's Customer Information System ("CIS"). The equivalent meters are the number of customer meters at each meter size weighted by the potential water demand each meter can place on the water system.

Private fire connections and hydrants were not included as the City does not currently bill separately for public or private fire protection.

TABLE 34: WATER UNITS OF SERVICE

Water Units of Service	Base Units		Maximum Day Extra Capacity Units			Maximum Hour Extra Capacity Units			Customer Units		Direct Fire Protection	
CUSTOMER CLASS	Forecast Annual Demand CCF	Forecast Average Day Demand	Capacity Factor	Total Capacity	Extra Capacity	Capacity Factor	Total Capacity	Extra Capacity	Equivalent Meters & Services	Bills	Private Fire Equivalent Connections	Private Fire Bills	Public Fire Hydrants
INSIDE CITY RETAIL CONSUMPTION REVENUE													
Total Inside City Residential	1,745,595	4,782	2.52	12,063	7,281	4.92	23,524	11,460	25,621	301,317			
Total Inside City Commercial/Industrial	1,484,239	4,066	2.58	10,932	6,866	5.24	21,317	10,385	8,509	15,210			
Total Inside City Lawn	17,526	34	8.12	280	246	15.83	546	266	138	555			
Total Inside City	3,247,360	8,883		23,275	14,392	28	45,387	22,112	34,269	317,082			
OUTSIDE CITY RETAIL CONSUMPTION REVENUE													
Total Outside City Residential	8,112	22	3.00	67	44	5.85	130	63	129	1,503			
Total Outside City Commercial/Industrial	26,266	72	3.74	213	141	6.33	456	222	166	417			
Total Outside City Lawn		0	0.00			0.00							
Total Outside City	34,379	94		280	205	12	585	286	295	1,920			
Grand Total System Units of Service	3,276,739	8,977		23,575	14,598	30	45,972	22,397	34,564	319,002			

4.2.8 Unit Cost of Service

Following the allocation of the water revenue requirements to each of the cost components and the calculation of the units of service, a unit cost of service for each cost component can be determined. These unit costs are basis by which the revenue requirements by customer class are determined. The unit cost of service is the revenue requirement, as allocated to the cost components, divided by the units of service attributable to that component and is shown in Table 35 below.

TABLE 35: WATER UNIT COST OF SERVICE

Water Units of Service								
			Max Day	Max Hour	Customer Units		Direct Fire Protection	
CUSTOMER CLASS	Base Demand Units	Extra Capacity	Extra Capacity	Equivalent Meters & Services	Bills		Private Fire Ecuivalent Connections	Public Fire Hydrants
Total Inside City	3,242,360	14,992	22,112	34,689	317,082			
Total Outside City	34,378	206	285	295	1,920			
Grand Total System Units of Service	3,276,738	14,598	22,397	34,984	319,002			

Water Cash Basis Revenue Requirements													
				Max Day	Max Hour	Customer Units		Direct Fire Protection					
REVENUE REQUIREMENT	Total	Base Demand Units	Extra Capacity	Extra Capacity	Equivalent Meters & Services	Bills		Private Fire Ecuivalent Connections		Public Fire Hydrants			
Total Operation and Mainterance Expenditures	$ 21,483,441	$ 8,778,137	$ 10,806,686	$ 875,157	$ 3,023,462	$ -		$ -		$ -		$ -	
Unit Cost		$ 2.07	$ 740.28	$ 36.08	$ 80.47	$ -		$ -		$ -		$ -	
Total Capital Expenditures	$ 13,830,548	$ 5,882,305	$ 7,298,754	$ 360,200	$ 319,289	$ -		$ -		$ -		$ -	
Unit Cost		$ 1.80	$ 497.93	$ 16.08	$ 9.13	$ -		$ -		$ -		$ -	
Total Non-Rate Revenues	$ (913,314)	$ (288,155)	$ (459,419)	$ (37,205)	$ (128,535)	$ -		$ -		$ -		$ -	
Unit Cost		$ (0.09)	$ (31.47)	$ (1.66)	$ (3.68)	$ -		$ -		$ -		$ -	
Total System Revenue Requirements	$ 34,400,675	$ 12,372,280	$ 17,010,021	$ 1,198,152	$ 3,214,210	$ -		$ -		$ -		$ -	
Total System Unit COS	$ -	$ 3.78	$ 1,206.74	$ 53.50	$ 91.93	$ -		$ -		$ -		$ -	

For example, total base demand units are 3.2 Million CCF. This means that the O&M, Capital and Non-Rate Revenue Requirements cost $2.07, $1.80 and $(.09) per unit of base water demand. The total unit cost to serve base water demand is $3.78/CCF. The calculation is repeated for each cost component to determine the overall unit cost to serve base demand, extra capacity demand (max day and hour) and provide customer service.

4.2.9 Revenue Requirements by Customer Class

The customer class revenue requirements are the basis for establishing alternative rates by customer class. The City's existing rate structure does not include distinct rates by customer class. At this time the City will not be implementing any rate structure changes. However, the distinct class revenue requirements are shown in Table 36 below and are the basis for the alternative rates by customer class presented as Appendix A.

TABLE 36: WATER REVENUE REQUIREMENTS BY CUSTOMER CLASS

Water Units of Service

CUSTOMER CLASS		Base Demand Units	Max Day Extra Capacity	Max Hour Extra Capacity	Customer Units: Equivalent Meters & Services	Customer Units: Bills	Direct Fire Protection: Private Fire Equivalent Fire Connections	Direct Fire Protection: Private Fire Bills	Direct Fire Protection: Public Fire Hydrants
Total System Revenue Requirements	$34,400,675	$12,372,286	$17,616,021	$1,193,152	$ 3,214,216	$ -	$ -	$ -	$ -
Total System Unit COS		$ 3.78	$ 1,206.74	$ 53.50	$ 91.93	$ -	$ -	$ -	$ -
Units of Service									
Total Inside City Residential		1,745,525	7,201	11,460	25,621	301,317	-	-	-
Total Inside City Commercial/Industrial		1,484,239	6,866	10,385	8,909	15,210	-	-	-
Total Inside City Lawn		12,586	245	266	138	555	-	-	-
Total Inside City		3,242,360	14,392	22,112	34,669	317,082	-	-	-
Total Outside City Residential		8,112	44	63	129	1,503	-	-	-
Total Outside City Commercial/Industrial		26,266	161	222	166	417	-	-	-
Total Outside City Lawn		-	-	-	-	-	-	-	-
Total Outside City		34,379	206	285	295	1,920	-	-	-
Total System Units of Service		3,276,738	14,598	22,397	34,964	319,002	-	-	-
Allocated Cost of Service									
Total Inside City Residential COS	$10,345,672	$ 3,590,770	$ 9,706,440	$ 613,009	$ 2,355,365	$ -	$ -	$ -	$ -
Total Inside City Commercial/Industrial COS	$15,263,704	$ 5,604,180	$ 8,284,911	$ 555,585	$ 819,028	$ -	$ -	$ -	$ -
Total Inside City Lawn COS	$ 370,646	$ 47,521	$ 296,185	$ 14,226	$ 12,714	$ -	$ -	$ -	$ -
Total Inside City COS	$33,980,022	$12,242,479	$17,367,536	$1,182,900	$ 3,187,107	$ -	$ -	$ -	$ -
Total Outside City Residential COS	$ 99,483	$ 30,630	$ 53,642	$ 3,389	$ 11,823	$ -	$ -	$ -	$ -
Total Outside City Commercial/Industrial COS	$ 321,169	$ 99,177	$ 194,843	$ 11,863	$ 15,286	$ -	$ -	$ -	$ -
Total Outside City Lawn COS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Outside City COS	$ 420,653	$ 129,807	$ 248,485	$ 15,252	$ 27,109	$ -	$ -	$ -	$ -
Total System Cost of Service	$34,400,675	$12,372,286	$17,616,021	$1,198,152	$ 3,214,216	$ -	$ -	$ -	$ -
Check on Total System COS (Should be $0)	$								

As Table 36 indicates, the revenue requirement for each customer class is the total unit cost of service determined previously, multiplied by the units of service for each customer class. The total allocation is based on each customer class's contribution to the water utility's overall operating and capital costs, as represented by their units of service.

4.3 WATER RATE DESIGN

As mentioned previously, the water rates have been calculated under the City's existing rate structure. The rate calculation under existing rates will be presented here, with the alternative rates by customer class presented as Appendix A for informational purposes.

4.3.1 Volumetric Rate Calculations

As mentioned above, the City did not indicate a desire to significantly modify its water rate structure at this time. Therefore RFC maintained various components of the existing water volumetric rates including:

- The existing inside/outside city differential (i.e. outside=150% of inside)
- The existing steepness or difference between the highest, middle and lowest block rates
- The existing structure which charges the same volumetric rates for all customer classes
- The existing shift of some volumetric costs to the fixed service charge (i.e. a readiness to serve adjustment)

The calculation of the water volumetric rates involves the following steps

- Determine total composite volumetric revenue requirement:

    - Adjust the test-year volumetric revenue requirement (i.e. Base, Max Day and Max Hour costs) by the readiness to serve amount
    - Allocate the adjusted volumetric revenue requirement to the three consumption blocks
    - Add the block allocation for inside and outside city customers to determine a composite volumetric revenue requirement for all customer classes
- Determine the composite water volumetric units:
    - Multiply the consumption, by block, for inside and outside city customers, by their respective differentials (Outside=150% of Inside).
    - Add those units together.
- Calculate Inside and Outside City Volumetric Rates:
    - Determine a composite rate, for each block, for all customer classes:
        - Multiply the composite consumption for each block by the proposed steepness for that block and sum the result
        - For the lowest block divide the total composite revenue requirement by the total determined above.
        - For Blocks 2 and 3 multiply the Block 1 rate by the proposed steepness for Blocks 2 and 3.
    - Multiply the composite rates, by block determined above, by the outside and inside city differentials to determine the block rates for inside and outside city customers.

A summary of the water volumetric rate calculations are indicated in Table 37 below.

TABLE 37: WATER VOLUMETRIC RATE CALCULATIONS

	Total Cost Components by COS			% Allocation of Costs to Rivers			Allocation of Cost Components to Rivers			Test Year Consumption (1,000 Gallons)	101 Differential			Rivers Rate Calculations					
	Base Demand Units	Max Day Extra Capacity	Max Hour Extra Capacity	Base Demand Units	Max Day Extra Capacity	Max Hour Extra Capacity	Base Demand Units	Max Day Extra Capacity	Max Hour Extra Capacity		Test Year Differential Times Inside City	Test Year Adjusted Consumption (1,000 Gallons)	Test Year Composite Consumption (1,000 Gallons)	Test Year Proposed Steepness	Test Year Existing Rates	Test Year FY 2015 Proposed Block Rates	Difference $	Difference %
EXISTING RATE DESIGN																		
Total Inside City COS	$ 10,242,479	$ 17,367,936	$ 1,182,900															
RTS Adjustment	$ (6,365,322)	$ -	$ -															
Adjusted Inside City COS	$ 3,877,157	$ 17,367,936	$ 1,182,900															
Total Inside City All Classes																		
Inside City Block 1				100%	85%	50%	$ 3,877,157	$ 14,762,146	$ 591,450	1,743,112	1000	1,743,112	1720,016	1.00	$ 7.02	$ 7.02	$ 0.00	0%
Inside City Block 2					15%	5%	$ -	$ 2,605,790	$ 59,145	956,438	1000	956,438	972,172	1.15	$ 7.31	$ 7.62	$ 0.31	4%
Inside City Block 3				0%	0%	45%	$ -	$ -	$ 532,305	542,832	1000	542,832	562,346	1.00	$ 9.79	$ 9.09	$ 0.00	0%
				100%	100%	100%	$ 3,877,157	$ 17,367,936	$ 1,182,900	3,242,380		3,242,380	3293,533					
Total Outside City COS	$ 129,807	$ 248,485	$ 15,252															
RTS Adjustment	$ (54,178)	$ -	$ -															
Adjusted Outside City COS	$ 75,664	$ 248,485	$ 15,252															
Total Outside City All Classes																		
Outside City Block 1				100%	85%	50%	$ 75,664	$ 211,212	$ 7,626	10,527	1500	15,791		1.00	$ 11.26	$ 11.88	$ 0.62	6%
Outside City Block 2					15%	5%	$ -	$ 37,273	$ 763	13,484	1500	15,736		1.15	$ 10.17	$ 11.42	$ 0.65	6%
Outside City Block 3				0%	0%	45%	$ -	$ -	$ 6,863	13,351	1500	20,042		1.00	$ 8.68	$ 9.14	$ 0.46	5%
				100%	100%	100%	$ 75,664	$ 248,485	$ 15,252	34,375		51,568						
Total System																		

4.3.2 Fixed Charge Calculations

As noted above, the City did not express a desire to change rate structures at this time. Consequently, the following aspects of the existing rate structure have been maintained including:

- The existing inside/outside city differential (i.e. outside=150% of inside)
- The existing shift of some volumetric costs to the fixed service charge (i.e. a readiness to serve adjustment)
- The flow equivalencies for the various meter sizes

The calculation of the water fixed charges involves the following steps

- Determine total composite fixed charge revenue requirement by summing the fixed charge revenue requirements (i.e. those allocated to the customer service related cost components) and the readiness to serve revenue requirement
- Determine the composite fixed charge water units:
    - Multiply the number of inside and outside city equivalent accounts by the existing I/O differential (Outside=150% of Inside)
    - Add those units together to determine the composite number of equivalent customer accounts
- Calculate Inside and Outside City Volumetric Rates:
    - Determine an annual composite rate for all customer classes by dividing the total composite revenue requirement determined above, by the total composite water equivalent accounts
    - Determine a monthly rate for the 5/8" equivalent account by dividing the annual rate by 12.
    - Multiply the composite fixed charges by the Inside and Outside City differentials (100% for Inside City and 150% for Outside City) to determine the monthly fixed charge per 5/8" equivalent account for inside and outside city customer classes.
    - Multiply the monthly fixed charge for a 5/8" equivalent account by the meter equivalencies for each meter size to determine the monthly fixed charge for the remaining meter sizes.

The fixed charge calculations are shown in Table 38 on the following page.

TABLE 38: WATER FIXED CHARGE CALCULATIONS

CHARGE	Total Revenue Requirements By Charge	Composite Revenue Requirements	Equivalent Accounts	Test Year Differential ____ Times Inside City	Test Year Adjusted Equivalent Accounts	Test Year Composte Equivalent Accounts	Monthly Fixed Charge Per 5/8" Equivalent
Total Inside City Residential	$ 7,059,524	$ 7,094,959	25,621	1.00	25,621	25,814	$ 22.90
Total Inside City Commercial/Industrial	$ 2,492,905	$ 2,538,722	9,048	1.00	9,048	9,297	$ 22.76
	$ 9,552,429	$ 9,633,681	34,669		34,669	35,111	
Total Outside City Residential	$ 35,435		129	1.50	193		$ 34.36
Total Outside City Commercial/Industrial	$ 45,817		166	1.50	249		$ 34.13
	81,252		295		442		

CUSTOMER CLASS	Inside City Meter Equivalency	Outside Meter Equivalency	Proposed Fixed Charge INSIDE CITY	Existing Fixed Charge INSIDE CITY	Difference	Proposed Fixed Charge OUTSIDE CITY	Existing Fixed Charge OUTSIDE CITY	Difference
Residential Customers								
5/8"	1.00	0.99	$ 22.90	$ 21.78	5%	$ 34.17	$ 32.48	5%
3/4"	1.92	1.92	$ 44.03	$ 41.86	5%	$ 65.95	$ 62.71	5%
1"	2.54	2.53	$ 58.15	$ 55.28	5%	$ 87.08	$ 82.79	5%
1-1/2"	2.54	2.53	$ 58.15	$ 55.28	5%	$ 87.08	$ 82.79	5%
2"	2.54	2.53	$ 58.15	$ 55.28	5%	$ 87.08	$ 82.79	5%
Commercial/Industrial Customers								
5/8"	2.45	2.45	$ 55.79	53.385	4%	$ 83.74	$ 80.13	4%
3/4"	2.81	2.81	$ 64.02	61.263	4%	$ 95.84	$ 91.72	4%
1"	3.45	3.45	$ 78.48	75.103	4%	$ 117.74	$ 112.67	4%
1-1/2"	4.95	4.95	$ 112.60	107.756	4%	$ 169.06	$ 161.79	4%
2"	6.92	6.92	$ 157.40	150.622	4%	$ 236.26	$ 226.09	4%
3"	13.65	13.73	$ 310.83	297.448	4%	$ 468.65	$ 448.47	4%
4"	24.04	24.04	$ 547.05	523.495	4%	$ 820.71	$ 785.37	4%
6"	47.27	47.27	$ 1,075.75	1029.429	4%	$ 1,613.34	$ 1,543.87	4%
8"	68.55	68.56	$ 1,560.05	1492.875	4%	$ 2,340.24	$ 2,239.47	4%
10"	94.63	95.13	$ 2,153.43	2060.754	4%	$ 3,247.30	$ 3,107.48	4%
12"	114.49	114.48	$ 2,605.31	2493.124	4%	$ 3,907.77	$ 3,739.51	4%
16"	142.43	142.48	$ 3,242.25	3102.636	4%	$ 4,863.28	$ 4,653.87	4%
20"	153.09	167.27	$ 3,501.93	3351.103	4%	$ 5,709.67	$ 5,463.02	4%

4.3.3 Summary of Existing and Forecast Water Rates

Based on the calculations from the previous two sections, the existing and proposed rates for the forecast period are shown on Tables 39 and 40 on the following two pages. Note that while the test year rates have been calculated within the cost of service study, the rates for FY 2016 and beyond are based on the overall rate revenue increase from the water utility financial plan.

TABLE 39: SUMMARY OF EXISTING AND FORECAST VOLUMETRIC WATER RATES

Water Volumetric Rates

CUSTOMER CLASS	CONSUMPTION BLOCK	UNITS	FY 2014 Existing Block Rates	Test-Year FY 2015 Proposed Block Rates	Forecast FY 2016 Proposed Block Rates	Forecast FY 2017 Proposed Block Rates	Forecast FY 2018 Proposed Block Rates	Forecast FY 2019 Proposed Block Rates	Forecast FY 2020 Proposed Block Rates	Forecast FY 2021 Proposed Block Rates	Forecast FY 2022 Proposed Block Rates	Forecast FY 2023 Proposed Block Rates	Forecast FY 2024 Proposed Block Rates	Forecast FY 2025 Proposed Block Rates
Total Inside City All Classes														
Inside City Block 1	0-35 CCF	($/CCF)	$ 7.52	$ 7.92	$ 8.32	$ 8.69	$ 8.95	$ 9.22	$ 9.46	$ 9.64	$ 9.83	$ 10.03	$ 10.23	$ 10.44
Inside City Block 2	36-2000 CCF	($/CCF)	$ 7.51	$ 7.82	$ 8.00	$ 8.36	$ 8.61	$ 8.87	$ 9.09	$ 9.27	$ 9.45	$ 9.64	$ 9.84	$ 10.03
Inside City Block 3	above 2000 CCF	($/CCF)	$ 6.79	$ 6.89	$ 6.40	$ 6.69	$ 6.89	$ 7.09	$ 7.27	$ 7.42	$ 7.58	$ 7.72	$ 7.87	$ 8.03
Total Outside City All Classes														
Outside City Block 1	0-35 CCF	($/CCF)	$ 11.28	$ 11.88	$ 12.48	$ 13.04	$ 13.43	$ 13.83	$ 14.19	$ 14.46	$ 14.75	$ 15.04	$ 15.35	$ 15.65
Outside City Block 2	36-2000 CCF	($/CCF)	$ 10.27	$ 11.42	$ 12.00	$ 12.54	$ 12.91	$ 13.30	$ 13.65	$ 13.90	$ 14.18	$ 14.46	$ 14.75	$ 15.05
Outside City Block 3	above 2000 CCF	($/CCF)	$ 8.68	$ 9.14	$ 9.60	$ 10.03	$ 10.33	$ 10.64	$ 10.91	$ 11.12	$ 11.35	$ 11.57	$ 11.80	$ 12.04

TABLE 40: SUMMARY OF EXISTING AND FORECAST WATER FIXED CHARGES

Water Fixed Charges

CUSTOMER CLASS	FY 2014 Existing Fixed Charge	Test-Year FY 2015 Proposed Fixed Charge	Forecast FY 2016 Proposed Fixed Charge	Forecast FY 2017 Proposed Fixed Charge	Forecast FY 2018 Proposed Fixed Charge	Forecast FY 2019 Proposed Fixed Charge	Forecast FY 2020 Proposed Fixed Charge	Forecast FY 2021 Proposed Fixed Charge	Forecast FY 2022 Proposed Fixed Charge	Forecast FY 2023 Proposed Fixed Charge	Forecast FY 2024 Proposed Fixed Charge	Forecast FY 2025 Proposed Fixed Charge
Inside City Residential Customers												
5/8"	$ 21.78	$ 22.90	$ 24.05	$ 25.13	$ 25.89	$ 26.66	$ 27.33	$ 27.88	$ 28.43	$ 29.00	$ 29.58	$ 30.17
3/4"	$ 41.60	$ 44.03	$ 46.23	$ 48.31	$ 49.76	$ 51.25	$ 52.53	$ 53.58	$ 54.65	$ 55.75	$ 56.87	$ 58.00
1"	$ 56.28	$ 58.15	$ 61.05	$ 63.80	$ 65.72	$ 67.69	$ 69.38	$ 70.77	$ 72.18	$ 73.63	$ 75.10	$ 76.60
1 1/2"	$ 56.28	$ 58.15	$ 61.05	$ 63.80	$ 65.72	$ 67.69	$ 69.38	$ 70.77	$ 72.18	$ 73.63	$ 75.10	$ 76.60
2"	$ 56.28	$ 58.15	$ 61.05	$ 63.80	$ 65.72	$ 67.69	$ 69.38	$ 70.77	$ 72.18	$ 73.63	$ 75.10	$ 76.60
Inside City Commercial/Industrial Customers												
5/8"	$ 53.39	$ 55.79	$ 58.58	$ 61.21	$ 63.05	$ 64.94	$ 66.56	$ 67.90	$ 69.25	$ 70.64	$ 72.05	$ 73.49
3/4"	$ 61.28	$ 64.02	$ 67.22	$ 70.25	$ 72.36	$ 74.52	$ 76.38	$ 77.91	$ 79.47	$ 81.06	$ 82.68	$ 84.34
1"	$ 75.10	$ 78.48	$ 82.41	$ 86.11	$ 88.70	$ 91.36	$ 93.64	$ 95.52	$ 97.43	$ 99.37	$ 101.36	$ 103.39
1-1/2"	$ 107.78	$ 112.60	$ 118.23	$ 123.56	$ 127.26	$ 131.08	$ 134.36	$ 137.04	$ 139.78	$ 142.58	$ 145.43	$ 148.34
2"	$ 159.62	$ 167.40	$ 186.27	$ 172.71	$ 177.89	$ 183.22	$ 187.81	$ 191.56	$ 195.39	$ 199.30	$ 203.29	$ 207.35
3"	$ 291.45	$ 310.83	$ 326.37	$ 341.05	$ 351.29	$ 361.83	$ 370.88	$ 378.29	$ 385.86	$ 393.58	$ 401.45	$ 409.48
4"	$ 521.50	$ 547.05	$ 574.40	$ 600.25	$ 618.26	$ 636.81	$ 652.73	$ 665.78	$ 679.10	$ 692.68	$ 706.53	$ 720.66
6"	$ 1,029.43	$ 1,075.75	$ 1,129.54	$ 1,180.37	$ 1,215.78	$ 1,252.25	$ 1,283.56	$ 1,309.23	$ 1,335.41	$ 1,362.12	$ 1,389.36	$ 1,417.15
8"	$ 1,492.88	$ 1,559.05	$ 1,638.05	$ 1,711.77	$ 1,763.12	$ 1,816.01	$ 1,861.41	$ 1,898.64	$ 1,936.61	$ 1,975.35	$ 2,014.85	$ 2,055.15
10"	$ 2,069.75	$ 2,161.48	$ 2,271.16	$ 2,372.91	$ 2,443.80	$ 2,516.81	$ 2,579.48	$ 2,630.97	$ 2,683.59	$ 2,737.35	$ 2,792.29	$ 2,848.91
12"	$ 2,403.12	$ 2,509.51	$ 2,636.57	$ 2,754.67	$ 2,844.43	$ 3,032.77	$ 3,109.50	$ 3,170.76	$ 3,234.17	$ 3,299.06	$ 3,364.83	$ 3,432.13
16"	$ 3,102.64	$ 3,242.25	$ 3,404.36	$ 3,557.53	$ 3,664.26	$ 3,774.21	$ 3,868.57	$ 3,945.94	$ 4,024.86	$ 4,105.35	$ 4,187.46	$ 4,271.21
20"	$ 3,351.18	$ 3,501.98	$ 3,677.08	$ 3,842.54	$ 3,957.82	$ 4,076.56	$ 4,178.47	$ 4,262.04	$ 4,347.28	$ 4,434.23	$ 4,522.91	$ 4,613.37
Outside City Residential Customers												
5/8"	$ 32.48	$ 34.17	$ 35.87	$ 37.49	$ 38.61	$ 39.77	$ 40.77	$ 41.58	$ 42.41	$ 43.26	$ 44.13	$ 45.01
3/4"	$ 62.71	$ 65.50	$ 68.25	$ 72.37	$ 74.54	$ 76.78	$ 78.69	$ 80.27	$ 81.87	$ 83.51	$ 85.18	$ 86.89
1"	$ 82.79	$ 87.08	$ 91.43	$ 95.55	$ 98.42	$ 101.37	$ 103.90	$ 105.98	$ 108.10	$ 110.26	$ 112.47	$ 114.72
1 1/2"	$ 82.79	$ 87.08	$ 91.43	$ 95.55	$ 98.42	$ 101.37	$ 103.90	$ 105.98	$ 108.10	$ 110.26	$ 112.47	$ 114.72
2"	$ 82.79	$ 87.08	$ 91.43	$ 95.55	$ 98.42	$ 101.37	$ 103.90	$ 105.98	$ 108.10	$ 110.26	$ 112.47	$ 114.72
Outside City Commercial/Industrial Customers												
5/8"	$ 88.13	$ 92.74	$ 97.93	$ 91.88	$ 94.64	$ 97.48	$ 99.90	$ 101.91	$ 103.95	$ 106.03	$ 108.15	$ 110.32
3/4"	$ 91.72	$ 96.54	$ 100.63	$ 105.13	$ 108.32	$ 111.57	$ 114.36	$ 116.64	$ 118.30	$ 121.38	$ 123.76	$ 126.26
1"	$ 112.67	$ 117.74	$ 123.63	$ 129.19	$ 133.07	$ 137.06	$ 140.48	$ 143.30	$ 146.16	$ 149.09	$ 152.07	$ 155.11
1-1/2"	$ 181.79	$ 189.06	$ 197.52	$ 196.51	$ 191.07	$ 196.80	$ 201.72	$ 205.76	$ 209.87	$ 214.07	$ 218.35	$ 222.72
2"	$ 226.00	$ 236.26	$ 246.07	$ 250.24	$ 257.01	$ 275.02	$ 281.90	$ 287.54	$ 293.29	$ 299.15	$ 305.14	$ 311.24
3"	$ 448.47	$ 466.65	$ 482.08	$ 514.23	$ 529.66	$ 545.54	$ 559.18	$ 570.36	$ 581.77	$ 593.41	$ 605.27	$ 617.38
4"	$ 795.57	$ 830.71	$ 881.74	$ 900.52	$ 927.53	$ 955.36	$ 979.24	$ 998.83	$ 1,018.81	$ 1,039.18	$ 1,059.97	$ 1,081.17
6"	$ 1,543.07	$ 1,610.24	$ 1,654.00	$ 1,770.23	$ 1,823.34	$ 1,878.04	$ 1,924.99	$ 1,963.49	$ 2,002.76	$ 2,042.82	$ 2,083.67	$ 2,125.35
8"	$ 2,239.47	$ 2,340.24	$ 2,457.26	$ 2,557.83	$ 2,644.87	$ 2,724.21	$ 2,792.32	$ 2,848.16	$ 2,905.13	$ 2,963.23	$ 3,022.50	$ 3,082.95
10"	$ 3,107.48	$ 3,247.30	$ 3,409.67	$ 3,559.13	$ 3,670.09	$ 3,780.18	$ 3,874.60	$ 3,952.09	$ 4,031.13	$ 4,111.76	$ 4,193.99	$ 4,277.87
12"	$ 3,739.51	$ 3,907.77	$ 4,103.10	$ 4,287.80	$ 4,410.44	$ 4,548.93	$ 4,662.00	$ 4,755.91	$ 4,851.03	$ 4,948.05	$ 5,047.01	$ 5,147.95
16"	$ 4,653.57	$ 4,865.28	$ 5,108.44	$ 5,336.23	$ 5,490.32	$ 5,661.21	$ 5,802.74	$ 5,918.79	$ 6,037.17	$ 6,157.91	$ 6,281.07	$ 6,406.69
20"	$ 5,483.82	$ 5,709.67	$ 5,995.16	$ 6,264.94	$ 6,452.89	$ 6646.48	$ 6,812.64	$ 6,948.89	$ 7,087.87	$ 7,229.63	$ 7,374.22	$ 7,521.70

4.3.4 Projected Residential Water Bills

Table 41 below indicates projected water bills for Residential Inside City customers with a 5/8" meter. Also included are estimates of the bills, which residential customer may have seen, had the City continued to purchase water from DWSD. For example, had the City continued to purchase water from DWSD, a typical Flint customer using 5 CCF per month would have an estimated water bill in FY 2015 of $67.38 Given the shift to KWA, that same customer would see a bill of $62.51, a savings of $4.87 per month, or $58.44 per year.

TABLE 41: PROJECTED RESIDENTIAL WATER BILLS

ESTIMATED MONTHLY SAVINGS (DWSD vs. KWA)	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Monthly Usage (CCF)												
1	$ -	$ (2.42)	$ (5.37)	$ (5.80)	$ (5.98)	$ (6.15)	$ (6.31)	$ (6.65)	$ (7.00)	$ (7.37)	$ (7.75)	$ (7.90)
2	$ -	$ (3.04)	$ (6.74)	$ (7.28)	$ (7.50)	$ (7.72)	$ (7.91)	$ (8.34)	$ (8.79)	$ (9.25)	$ (9.73)	$ (9.92)
3	$ -	$ (3.65)	$ (8.11)	$ (8.76)	$ (9.02)	$ (9.29)	$ (9.52)	$ (10.04)	$ (10.57)	$ (11.13)	$ (11.70)	$ (11.93)
4	$ -	$ (4.26)	$ (9.47)	$ (10.23)	$ (10.54)	$ (10.86)	$ (11.13)	$ (11.73)	$ (12.36)	$ (13.01)	$ (13.68)	$ (13.95)
5	$ -	$ (4.87)	$ (10.84)	$ (11.71)	$ (12.06)	$ (12.42)	$ (12.74)	$ (13.43)	$ (14.14)	$ (14.88)	$ (15.65)	$ (15.96)
6	$ -	$ (5.48)	$ (12.21)	$ (13.19)	$ (13.58)	$ (13.99)	$ (14.34)	$ (15.12)	$ (15.93)	$ (16.76)	$ (17.63)	$ (17.98)
7	$ -	$ (6.09)	$ (13.58)	$ (14.67)	$ (15.11)	$ (15.56)	$ (15.95)	$ (16.81)	$ (17.71)	$ (18.64)	$ (19.60)	$ (19.99)
8	$ -	$ (6.71)	$ (14.94)	$ (16.14)	$ (16.63)	$ (17.13)	$ (17.56)	$ (18.51)	$ (19.50)	$ (20.52)	$ (21.58)	$ (22.01)
9	$ -	$ (7.32)	$ (16.31)	$ (17.62)	$ (18.15)	$ (18.69)	$ (19.16)	$ (20.20)	$ (21.28)	$ (22.40)	$ (23.55)	$ (24.03)
10	$ -	$ (7.93)	$ (17.68)	$ (19.10)	$ (19.67)	$ (20.26)	$ (20.77)	$ (21.90)	$ (23.07)	$ (24.28)	$ (25.53)	$ (26.04)

RATE IMPACT 5/8" Customer (KWA Version)	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Monthly Usage (CCF)												
1	$ 29.29	$ 30.83	$ 32.37	$ 33.82	$ 34.84	$ 35.88	$ 36.78	$ 37.52	$ 38.27	$ 39.03	$ 39.81	$ 40.61
2	$ 36.81	$ 38.75	$ 40.68	$ 42.51	$ 43.79	$ 45.10	$ 46.23	$ 47.16	$ 48.10	$ 49.06	$ 50.04	$ 51.04
3	$ 44.33	$ 46.67	$ 49.00	$ 51.21	$ 52.74	$ 54.32	$ 55.68	$ 56.80	$ 57.93	$ 59.09	$ 60.27	$ 61.48
4	$ 51.85	$ 54.59	$ 57.32	$ 59.90	$ 61.69	$ 63.55	$ 65.13	$ 66.44	$ 67.77	$ 69.12	$ 70.50	$ 71.91
5	$ 59.37	$ 62.51	$ 65.64	$ 68.59	$ 70.65	$ 72.77	$ 74.59	$ 76.08	$ 77.60	$ 79.15	$ 80.73	$ 82.35
6	$ 66.88	$ 70.43	$ 73.95	$ 77.28	$ 79.60	$ 81.99	$ 84.04	$ 85.72	$ 87.43	$ 89.18	$ 90.95	$ 92.78
7	$ 74.40	$ 78.35	$ 82.27	$ 85.97	$ 88.55	$ 91.21	$ 93.49	$ 95.36	$ 97.27	$ 99.21	$ 101.20	$ 103.22
8	$ 81.92	$ 86.27	$ 90.59	$ 94.66	$ 97.50	$ 100.43	$ 102.94	$ 105.00	$ 107.10	$ 109.24	$ 111.43	$ 113.65
9	$ 89.44	$ 94.20	$ 98.91	$ 103.36	$ 106.46	$ 109.65	$ 112.39	$ 114.64	$ 116.93	$ 119.27	$ 121.65	$ 124.09
10	$ 96.96	$ 102.12	$ 107.22	$ 112.05	$ 115.41	$ 118.87	$ 121.84	$ 124.28	$ 126.77	$ 129.30	$ 131.89	$ 134.52

RATE IMPACT 5/8" Customer (DWSD Version)	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Monthly Usage (CCF)												
1	$ 29.29	$ 33.25	$ 37.74	$ 39.62	$ 40.81	$ 42.04	$ 43.09	$ 44.17	$ 45.27	$ 46.40	$ 47.55	$ 48.51
2	$ 36.81	$ 41.78	$ 47.42	$ 49.79	$ 51.29	$ 52.83	$ 54.15	$ 55.50	$ 56.89	$ 58.31	$ 59.77	$ 60.96
3	$ 44.33	$ 50.31	$ 57.11	$ 59.96	$ 61.76	$ 63.61	$ 65.20	$ 66.83	$ 68.51	$ 70.22	$ 71.97	$ 73.41
4	$ 51.85	$ 58.85	$ 66.79	$ 70.13	$ 72.24	$ 74.40	$ 76.26	$ 78.17	$ 80.12	$ 82.13	$ 84.18	$ 85.86
5	$ 59.37	$ 67.38	$ 76.48	$ 80.30	$ 82.71	$ 85.19	$ 87.32	$ 89.50	$ 91.74	$ 94.03	$ 96.39	$ 98.31
6	$ 66.88	$ 75.91	$ 86.16	$ 90.47	$ 93.18	$ 95.98	$ 98.38	$ 100.84	$ 103.36	$ 105.94	$ 108.59	$ 110.76
7	$ 74.40	$ 84.45	$ 95.85	$ 100.64	$ 103.66	$ 106.77	$ 109.44	$ 112.17	$ 114.98	$ 117.85	$ 120.80	$ 123.21
8	$ 81.92	$ 92.98	$ 105.53	$ 110.81	$ 114.13	$ 117.56	$ 120.50	$ 123.51	$ 126.60	$ 129.76	$ 133.00	$ 135.66
9	$ 89.44	$ 101.51	$ 115.22	$ 120.98	$ 124.61	$ 128.34	$ 131.55	$ 134.84	$ 138.21	$ 141.67	$ 145.21	$ 148.11
10	$ 96.96	$ 110.05	$ 124.90	$ 131.15	$ 135.08	$ 139.13	$ 142.61	$ 146.18	$ 149.83	$ 153.58	$ 157.42	$ 160.56

5. WASTEWATER UTILITY COST OF SERVICE STUDY

Following the development of the wastewater utility financial plans the next step is to determine the level of rate revenues required to adequately recover the cost of providing wastewater service. This is typically performed for a test year, which—as mentioned previously—is the year ending June 30, 2014 (FY 2015).

5.1 WASTEWATER REVENUE REQUIREMENT FROM RATES

Table 42 below indicates the level of wastewater utility expenditures which must be recovered from rates in the FY 2015 test year. As the table indicates, the total test year revenue requirement is approximately $29 Million.

TABLE 42: WASTEWATER REVENUE REQUIREMENTS

OPERATION AND MAINTENANCE EXPENDITURES												
Revenue/Expense Item	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Total Dept 536 101 Utilities - Sewer Administration	$ 7,142,108	$ 7,663,942	$ 7,663,942	$ 7,663,942	$ 7,871,578	$ 8,095,618	$ 8,326,945	$ 8,563,061	$ 8,807,033	$ 9,058,391	$ 9,316,436	$ 9,582,291
Total Dept 540 100-Water Service Center Management	$ 2,713,445	$ 838,476	$ 838,476	$ 838,476	$ 866,307	$ 894,148	$ 922,849	$ 952,502	$ 983,141	$ 1,014,800	$ 1,047,513	$ 1,081,318
Total Dept 540 300-WSC - Capital improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 540 207-Wsc-Meter Reading - Sewer	$ 700,618	$ 738,419	$ 738,419	$ 738,419	$ 762,919	$ 788,273	$ 814,510	$ 841,663	$ 869,768	$ 898,858	$ 928,979	$ 960,143
Total Dept 540 208-Wsc-Sewer Maint /Construction	$ 2,703,183	$ 2,797,696	$ 2,797,696	$ 2,797,696	$ 2,890,717	$ 2,987,380	$ 3,087,837	$ 3,212,232	$ 3,326,726	$ 3,443,478	$ 3,566,664	$ 3,692,469
Total Dept 550 100-Wpc Operations	$ 5,178,142	$ 5,516,166	$ 5,103,386	$ 5,103,386	$ 5,387,112	$ 5,557,620	$ 5,755,170	$ 5,960,020	$ 6,172,460	$ 6,392,760	$ 6,621,258	$ 6,858,200
Total Dept 550 200-Wpc-Third Ave Pump Station	$ 909,913	$ 735,282	$ 735,282	$ 735,282	$ 761,801	$ 789,306	$ 817,834	$ 847,425	$ 878,119	$ 909,960	$ 942,990	$ 977,257
Total Dept 550 202 Wpc Maintenance Expense	$ 2,817,899	$ 2,912,411	$ 2,912,411	$ 2,912,411	$ 3,009,177	$ 3,109,314	$ 3,212,960	$ 3,320,211	$ 3,431,236	$ 3,546,160	$ 3,666,132	$ 3,789,203
Total Dept 550 300-WPC - Capital improvements	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 550 800 Non_dep_Exp Sewer Portion	$	$	$	$	$	$	$	$	$	$	$	$
Total Dept 900 101-Transfers out to fund 101	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000	$ 1,850,000
Total Operation and Maintenance Expenditures	$ 24,323,627	$ 23,053,392	$ 22,720,592	$ 22,720,592	$ 23,394,671	$ 24,091,569	$ 24,812,101	$ 25,337,113	$ 26,327,481	$ 27,124,113	$ 27,947,961	$ 28,800,000

CAPITAL EXPENDITURES												
Revenue/Expense Item	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Grand Total Existing and Proposed Debt Service	$	$	$	$	$	$	$	$	$	$	$	$
Wastewater Rate Revenue Financing (Cash)	$ 8,500,000	$ 6,500,000	$ 10,900,000	$ 9,500,000	$ 12,500,000	$ 7,500,000	$ 8,000,000	$ 7,500,000	$ 8,000,000	$ 8,000,000	$ 8,000,000	$ 8,500,000
Add Net Operating Surplus/(Deficit)	$ (2,850,381)	$ 1,454,161	$ (1,091,398)	$ 817,090	$ (1,196,371)	$ 3,606,382	$ 3,141,840	$ 3,824,149	$ 3,092,644	$ 3,349,055	$ 2,992,773	$ 2,420,436
Add Wastewater Transfers to Equipment Replacement Fund	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Capital Expenditures	$ 5,649,619	$ 6,054,161	$ 9,908,604	$ 10,317,090	$ 11,103,629	$ 11,106,382	$ 11,141,840	$ 11,324,149	$ 11,092,644	$ 11,349,055	$ 10,992,773	$ 10,920,436
GROSS REVENUE REQUIREMENT FROM RATES	$ 29,973,246	$ 30,007,553	$ 32,629,196	$ 33,037,682	$ 34,498,300	$ 35,197,952	$ 35,953,941	$ 36,661,262	$ 37,420,125	$ 38,473,170	$ 38,940,734	$ 39,720,436

NON RATE REVENUES												
Revenue/Expense Item	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019	Forecast FY 2020	Forecast FY 2021	Forecast FY 2022	Forecast FY 2023	Forecast FY 2024	Forecast FY 2025
Total Non-Rate Revenues	$ 395,872	$ 424,679	$ 419,222	$ 423,306	$ 418,328	$ 414,357	$ 495,087	$ 513,187	$ 528,651	$ 543,896	$ 558,980	$ 570,962
NET REVENUE REQUIREMENT FROM RATES	$ 27,777,374	$ 29,582,874	$ 31,209,974	$ 32,614,374	$ 34,081,974	$ 34,783,574	$ 35,458,854	$ 36,168,074	$ 36,891,474	$ 37,929,274	$ 38,381,754	$ 39,149,474

5.2 WASTEWATER REVENUE REQUIREMENTS BY CUSTOMER CLASS

Following the development of the total test year revenue requirement, the proportion of that revenue requirement attributable to each customer class must be determined. This allocation is performed via the multi-step process described below.

5.2.1 O&M Allocation to Function Categories

The first step in determining revenue requirements by customer class is to allocate the test year O&M revenue requirement to functional categories. These categories are functions that the wastewater utility must perform in order to deliver wastewater service to City customers. For the wastewater utility they are: Administrative and General, Customer Service, Collection, Pumping, and Treatment.

The O&M allocations, by department, are shown in Table 43 below:

TABLE 43: WASTEWATER O&M ALLOCATION TO FUNCTIONAL CATEGORIES

DEPARTMENT	Total $ Allocation	Administrative and General	Customer Service	Collection System	Lift Stations and Pumping	Wastewater Treatment
Total Dept 536.101-Utilities - Sewer Administration	$ 7,653,942	$ 7,653,942	$ -	$ -	$ -	$ -
Total Dept 540.100-Water Service Center Management	$ 839,475	$ -	$ 839,476	$ -	$ -	$ -
Total Dept 540.300-WSC - Capital Improvements	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 540.207-Wsc-Meter Reading - Sewer	$ 738,419	$ -	$ 738,419	$ -	$ -	$ -
Total Dept 540.208-Wsc-Sewer Maint./Construction	$ 2,797,696	$ -	$ -	$ 2,797,696	$ -	$ -
Total Dept 550.100 Wpc Operations	$ 5,516,166	$	$	$	$	$ 5,516,166
Total Dept 550.200-Wpc-Third Ave Pump Station	$ 735,282	$ -	$ -	$ -	$ 735,282	$ -
Total Dept 550.202-Wpc-Maintenance Expense	$ 2,912,411	$ -	$ -	$ -	$ -	$ 2,912,411
Total Dept 550.300-WPC - Capital Improvements	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 550.800-Non_dep_Exp-Sewer Portion	$ -	$ -	$ -	$ -	$ -	$ -
Total Dept 566.101-Transfers out to func 101	$ 1,860,000	$ 1,860,000	$ -	$ -	$ -	$ -
GRAND TOTAL WASTEWATER UTILITY	$ 23,053,392	$ 9,513,942	$ 1,577,894	$ 2,797,696	$ 735,282	$ 8,428,578

5.2.2 O&M Allocation to Cost Components

Once O&M costs have been allocated to functional categories, the total O&M revenue requirement allocated to each functional category must be further allocated based on the operational need which they are designed to fulfill. For this allocation RFC has generally utilized the cost allocation methodology described in the Water Environment Federation's Manual of Practice No. 27, "Financing and Charges for Wastewater Systems."

The costs components utilized in this study are: volume or wastewater utility costs which are incurred on the basis of the quantity of wastewater discharged into the system; strength measures such as Biochemical Oxygen Demand ("BOD"), Total Suspended Solids ("TSS") and Phosphorus; and customer measures such as equivalent meters and monthly bills. A summary of the allocation of the wastewater O&M revenue requirement is included in Table 44 on the following page.

TABLE 44: WASTEWATER O&M ALLOCATION TO COST COMPONENTS

FUNCTIONAL CLASSIFICATION	Total $ Allocation	Volume Allocation	Strength			Customer	
			Allocation To BOD	Allocation to TSS	Allocation to Phosphorous	Customer Meters	Customer Bills
Administrative and General	$ 9,513,942	$ 2,402,564	$ 1,974,206	$ 1,974,206	$ 1,974,206	$ 1,100,760	$ -
Customer Service	$ 1,577,894	$ -	$ -	$ -	$ -	$ 1,577,894	$ -
Collection System	$ 2,797,696	$ 2,797,696	$ -	$ -	$ -	$ -	$ -
Lift Stations and Pumping	$ 735,282	$ 735,282	$ -	$ -	$ -	$ -	$ -
Wastewater Treatment	$ 8,423,578	$ -	$ 2,809,526	$ 2,809,526	$ 2,809,526	$ -	$ -
	$ 23,053,392	$ 6,015,542	$ 4,783,732	$ 4,783,732	$ 4,783,732	$ 2,678,654	$ -

5.2.3 Capital Cost Allocation to Functional Components

Similar to the allocation of the O&M revenue requirement described in the previous section, the capital revenue requirement must be allocated to functional categories. Table 45 below indicates the allocation of capital costs.

TABLE 45: WASTEWATER CAPITAL ALLOCATION TO FUNCTIONAL CATEGORIES

Allocation of Capital Costs to Functional Categories						
	Total	Administrative and General	Customer Service	Collection System	Lift Stations and	Wastewater Treatment
Breakdown of Fixed Assets by Function	**100%**	**0.32%**	**0.00%**	**82.79%**	**4.31%**	**12.58%**
Total Capital Expenditures	**$ 7,230,845**	**$ 22,823.92**	**$ -**	**$ 5,986,709**	**$ 311,745**	**$ 909,567**

$ Allocation of Water Fixed Assets to Functional Categories						
FIXED ASSET CATEGORY	Net Book Value	Administrative and General	Customer Service	Collection System	Lift Stations and	Wastewater Treatment
01Land	$ 38,077	$ 120	$ -	$ 31,526	$ 1,642	$ 4,790
02Construction-in-progress	$ 527,286	$ 1,664	$ -	$ 436,561	$ 22,733	$ 66,327
11Land Improvements	$ 3,180,377	$ 10,986	$	$ 2,881,545	$ 150,050	$ 137,796
12Building Improvements	$ 752,952	$ 2,377	$	$ 623,399	$ 32,462	$ 94,714
13Sewage disposal plant & equipment	$ 6,581,444	$	$	$	$	$ 6,581,444
14Vehicle	$ 456,125	$ -	$ -	$ 456,125	$ -	$ -
15 Sewage Pumping Station	$ 2,255,719	$ -	$ -	$ -	$ 2,255,719	$ -
16Office & Other Equipment	$ 28,892	$ 28,892	$ -	$ -	$ -	$ -
17Sewer SSR	$ 42,862,474	$ -	$ -	$ 42,862,474	$ -	$ -
18Sanitary Sewers (Engg only)	$ 136,257	$ 136,257	$ -	$ -	$ -	$ -
Total Water Fixed assets	$ 57,119,603	$ 180,296	$ -	$ 47,291,030	$ 2,462,606	$ 7,165,071
% Breakdown	100.00%	0.32%	0.00%	82.79%	4.31%	12.58%

As the table above indicates, the basis for the allocation of capital costs was the existing level of wastewater utility investment in fixed assets. The existing net book value of each major asset class was allocated to the functional categories. The total capital revenue requirement, approximately 7 Million in the test year, was then allocated according to the proportion of existing investment in each functional category. For example, a large proportion of investment in wastewater fixed assets relates to the rehabilitation of the City's collection system ("Sewer SSR"). As such, the majority of the capital revenue requirement (82%) has been allocated to the collection system function.

5.2.4 Capital Cost Allocation to Cost Components

As with the allocation of the O&M revenue requirement described above, the functionally allocated capital revenue requirement must also be further allocated according to the operational need that each function is designed to fulfill.

Table 46 below summarizes this allocation.

TABLE 46: WASTEWATER CAPITAL ALLOCATION TO COST COMPONENTS

			Strength			Customer	
FUNCTIONAL CLASSIFICATION	Total $ Allocation	Volume Allocation	Allocation To BOD	Allocation to TSS	Allocation to Phosphorous	Customer Meters	Customer Bills
Administrative and General	22,324	19,944	960	960	960	-	-
Customer Service	-	-	-	-	-	-	-
Collection System	5,986,709	5,983,709	-	-	-	-	-
Lift Stations and Pumping	311,745	311,745	-	-	-	-	-
Wastewater Treatment	909,567	-	303,189	303,189	303,189	-	-
Total Capital Expenditures	7,230,345	6,313,397	304,149	304,149	304,149	-	-

5.2.5 Non-Rate Revenue Allocation to Cost Components

Non-rate revenue must be excluded from the O&M and Capital revenue requirements as these amounts are an offset to the revenue requirement which will be recovered from rates. Consequently, non-rate revenues are allocated to the cost components so that they can be removed from the total revenue requirement. In this case, non-rate revenues were allocated proportionally according to the total O&M revenue requirement allocation and can be seen in Table 47 below.

TABLE 47: WASTEWATER NON-RATE REVENUE ALLOCATION TO COST COMPONENTS

			Strength			Customer	
ACCOUNT CODE DESCRIPTION	Total $ Allocation	Volume Allocation	Allocation To BOD	Allocation to TSS	Allocation to Phosphorou	Customer Meters	Customer Bills
590-536.101-455.000 Bus.Licences & Permits - Utilities	21,872	5,707	4,539	4,539	4,539	2,549	-
590-536.101-530.000 Federal Grants	-	-	-	-	-	-	-
590-536.101-539.000 State Grants							
590-536.101-657.000 Fines - Turn-On Fees - Utilities	-	-	-	-	-	-	-
590-536.101-657.100 Forfeited Discount - Utilities	350,000	91,329	72,627	72,627	72,627	40,789	-
590-536.101-696.000 Self Insurance recoveries	-	-	-	-	-	-	-
590-536.101-699.998 Due From Fund Balance	-	-	-	-	-	-	-
590-536.101-699.999 Prior Year Revenue	-	-	-	-	-	-	-
590-540.100-677.000 Reimbursements	-	-	-	-	-	-	-
590-540.200-626.000 Charges For Services Rendered	-	-	-	-	-	-	-
590-540.208-626.900 Charges For Service Rendered - Intercity	-	-	-	-	-	-	-
590-540.208-677.000 Reimbursements	-	-	-	-	-	-	-
590-540.208-677.500 Reimbursements -proprietary funds	-	-	-	-	-	-	-
590-550.100-648.000 Scrap Sales	20,000	5,219	4,150	4,150	4,150	2,331	
590-550.100-649.000 Auction Rev - Forfeited & Others	-	-	-	-	-	-	-
590-550.100-657.000 Fines - Turn-On Fees - Utilities	-	-	-	-	-	-	-
590-550.100-677.000 Reimbursements	-	-	-	-	-	-	-
590-550.100-699.998 Due From Fund Balance	-	-	-	-	-	-	-
590-550.200-696.000 Discounts Earned	2,000	522	415	415	415	233	-
590-550.201-455.000 Bus.Licences & Permits - Utilities	2,000	522	415	415	415	233	-
590-550.202-699.998 Due From Fund Balance	-	-	-	-	-	-	-
590-550.800-664.100 Interest Earned	27,690	7,226	5,746	5,746	5,746	3,227	-
Add Transfers in from General Fund	-	-	-	-	-	-	-
Total Non-Rate Revenues	423,562	110,524	87,892	87,892	87,892	49,362	-

5.2.6 Plant Balance Analysis

Once each component of the revenue requirements has been determined, wastewater strength units, by customer class must be estimated. These are the basis upon which the strength costs, determined in the previous step, are allocated to each customer class.

This allocation is performed via a proportional distribution of each measure of strength to each customer class, based on the contribution of that class to overall billed wastewater volumes. This calculation is shown in Table 48 below.

TABLE 48: WASTEWATER PLANT BALANCE ANALYSIS CALCULATIONS

CUSTOMER CLASS		Test Year Volume (CCF)	Biochemical Oxygen Demand mg/L	Pounds	Total Suspended Solids mg/L	Pounds	Phosphorous mg/L	Pounds	Test Year Combined Pounds
Treatment Plant Volumes		3,669,018	84.5	1,935,331.27	78.5	1,797,911.30	4.225	96,766.56	3,830,009
Less:									
Total Inside City Residential		1,576,668	100	989,080	93	916,437	2	17,177	1,922,694
Total Inside City Commercial/Industrial		1,398,721	100	877,451	93	813,007	2	15,238	1,705,696
Total Outside City Residential		208	100	129	93	120	2	2	251
Total Outside City Commercial/Industrial		7,012	100	4,399	93	4,076	2	76	8,550
Total System Billed Volumes		2,982,604	100	1,871,059	93	1,733,639	2	32,494	3,637,192
Total Infiltration and Inflow		686,412	15	64,272.49	15	64,272.49	15	64,272.49	192,817
Balance		-		(0)		(0)		-	-
Gallons per CCF	748								
Milligrams per Pound	453.592								
Liters per Gallon	3.78541								
% Infiltration and Inflow		23%							

As an example, consider Biochemical Oxygen Demand. The proportion of BOD contributed to the wastewater system by each class, is function of the overall volume contributed by that class. Therefore the BOD units are allocated to each customer class based on their proportion of total billed volumes. Inside City Residential customers, for example, are forecasted to contribute 1.5 Million CCF in billed wastewater volumes in the test year, or 53% of total billed volumes. Consequently, they are assigned 53% of total forecast BOD. The same calculations are performed for the remaining strength units, TSS and Phosphorous.

The result is a total level of strength units for each customer class, which is then used to determine unit costs by customer class and allocate the test year revenue requirement.

5.2.7 Calculation of Units of Service

The next step in the cost allocation process is to summarize the units of service, which are used as the basis for the allocation of the total revenue requirement to each of the customer classes. The units pertain to each of the cost components mentioned above (i.e. strength, volume and customer units). In the following step, the units will be used to determine a unit cost for each cost component.

The wastewater units of service are shown in Table 49 below.

TABLE 49: WASTEWATER UNITS OF SERVICE

WASTEWATER UNITS OF SERVICE					
		Residential		Commercial/Industrial	
	Total System (CCF)	Total Inside City Residential	Total Outside City Residential	Total Inside City Commercial/Industrial	Total Outside City Commercial/Industrial
Volume Units					
% Breakdown		52.9%	0.0%	46.9%	0.2%
Total System Billed Volumes	2,982,604	1,576,656	206	1,398,721	7,012
Total Infiltration and Inflow	686,412	362,852	47	321,900	1,614
Total Volume	3,669,016	1,939,517	253	1,720,620	8,625
Strength Units					
BOD	1,871,059	989,030	129	877,451	4,399
TSS	1,733,639	916,437	120	813,007	4,076
Phosporous	32,494	17,177	2	15,238	76
Total Wastewater Strength (Pounds)	3,637,192	1,922,694	251	1,705,696	8,550
Customer Units					
Meters	33,177	25,436	6	7,699	35
Bills	315,952	301,096	71	14,646	137

As mentioned above the units determined for each customer class are volume (the total forecast wastewater contribution) strength (the proportion of wastewater strength units determined in the plant balance analysis) and customer (equivalent meters and customer bills as in the water cost of service study).

5.2.8 Unit Cost of Service

Following the allocation of the wastewater revenue requirements to each of the cost components and the calculation of the units of service, a unit cost of service for each cost component can be determined. These unit costs are the basis by which the revenue requirements by customer class are determined.

The unit cost of service is the total revenue requirement, as allocated to the cost components, divided by the units of service attributable to each component and is shown in Table 50 on the following page.

TABLE 50: WASTEWATER UNIT COST OF SERVICE

Wastewater Units of Service		Strength			Customer	
CUSTOMER CLASS	Volume Allocation	Allocation To BOD	Allocation to TSS	Allocation to Phosphorous	Customer Meters	Customer Bills
Total Inside City Residential	1,939,517	989,080	916,437	17,177	25,436	301,096
Total Outside City Residential	253	129	120	2	6	71
Total Inside City Commercial/Industrial	1,720,620	877,451	813,007	15,238	7,699	14,646
Total Outside City Commercial/Industrial	8,625	4,399	4,076	76	35	137
Grand Total System Units of Service	3,669,016	1,871,059	1,733,639	32,494	33,177	315,952

Wastewater "Cash Basis" Revenue Requirements			Strength			Customer	
REVENUE REQUIREMENT	Total	Volume Allocation	Allocation To BOD	Allocation to TSS	Allocation to Phosphorous	Customer Meters	Customer Bills
Total Operation and Maintenance Expenditures	$ 23,053,392	$ 6,015,542	$ 4,783,732	$ 4,783,732	$ 4,783,732	$2,686,654	$ -
Unit Cost		$ 1.64	$ 2.56	$ 2.76	$ 147.22	$ 80.98	$ -
Total Capital Expenditures	$ 7,230,845	$ 6,318,397	$ 304,149	$ 304,149	$ 304,149	$ -	$ -
Unit Cost		$ 1.72	$ 0.16	$ 0.18	$ 9.36	$ -	$ -
Total Non-Rate Revenues	$ (423,552)	$ (110,524)	$ (87,892)	$ (87,892)	$ (87,892)	$ (49,362)	$
Unit Cost		$ (0.03)	$ (0.05)	$ (0.05)	$ (2.70)	$ (1.49)	$ -
Total System Revenue Requirements	$ 29,860,674	$ 12,223,415	$ 4,999,989	$ 4,999,989	$ 4,999,989	$2,637,292	$ -
Total System Unit COS	$ -	$ 3.33	$ 2.67	$ 2.88	$ 153.87	$ 79.49	$ -

For example, the total volume units are 3.6 Million CCF. This means that the O&M, Capital and Non-Rate Revenue Requirements cost $1.64, $1.72 and $(.03) per unit of wastewater volume. The total unit cost associated with wastewater volume is $3.33/CCF. The calculation is repeated for each cost component to determine the overall unit cost associated with wastewater volume, strength (BOD, TSS and Phosphorous) and customer service.

5.2.9 Revenue Requirements by Customer Class

The customer class revenue requirements are the basis for establishing alternative rates by customer class. The City's existing wastewater rate structure does not include distinct rates by customer class. At this time the City does not wish to make major rate structure changes. However, the revenue requirements by customer class are shown in Table 51 on the following page and are the basis for the alternative wastewater rates presented as appendix B to this report.

TABLE 51: WASTEWATER REVENUE REQUIREMENTS BY CUSTOMER CLASS

Wastewater Units of Service			Strength			Customer	
CUSTOMER CLASS		Volume Allocation	Allocation To BOD	Allocation to TSS	Allocation to Phosphorous	Customer Meters	Customer Bills
Total System Revenue Requirements	$ 29,850,674	$ 12,223,415	$ 4,999,989	$ 4,999,989	$ 4,999,989	$2,637,292	$ -
Total System Unit COS		$ 3.33	$ 2.67	$ 2.38	$ 153.87	$ 79.49	$ -
Units of Service							
Total Inside City Residential		1,939,517	989,080	916,437	17,177	25,436	301,096
Total Inside City Commercial/Industrial		1,720,620	877,451	813,007	15,238	7,699	14,646
		3,660,138	1,866,531	1,729,444	32,415	33,135	315,743
Total Outside City Residential		253	129	120	2	5	71
Total Outside City Commercial/Industrial		8,625	4,399	4,076	76	35	137
		8,878	4,528	4,195	79	42	209
Total System Units of Service		3,669,016	1,871,059	1,733,639	32,494	33,177	315,952
Allocated Cost of Service							
Total Inside City Residential COS	$ 16,412,799	$ 6,461,649	$ 2,643,097	$ 2,643,097	$ 2,643,097	$2,021,959	$
Total Inside City Commercial/Industrial COS	$ 13,378,697	$ 5,732,288	$ 2,344,793	$ 2,344,793	$ 2,344,793	$ 615,030	$ -
Total Inside City All Classes	$ 29,791,496	$ 12,193,837	$ 4,987,890	$ 4,987,890	$ 4,987,890	$2,636,989	$ -
Total Outside City Residential COS	2,382.16	$ 843	$ 345	$ 345	$ 345	$ 505	$ -
Total Outside City Commercial/Industrial COS	66,796.05	$ 28,735	$ 11,754	$ 11,754	$ 11,754	$ 2,798	$ -
Total Outside City All Classes	$ 59,178	$ 29,578	$ 12,099	$ 12,099	$ 12,099	$ 3,303	$
Total System Cost of Service	$ 29,850,674	$ 12,223,415	$ 4,999,989	$ 4,999,989	$ 4,999,989	$2,637,292	$ -
Check on Total System COS (Should be $0)	$ -						

The revenue requirement for each customer class is the total unit cost of service determined previously, multiplied by the units of service for each customer class. The result is a total allocation to each customer class made up of each of the cost components discussed previously. The allocation is based on each customer class's contribution to the wastewater utility's overall operating and capital costs, as represented by their units of service.

5.3 WASTEWATER RATE DESIGN

The wastewater rates have been calculated under the existing rate structure and under a new structure which recognizes the customer classes present in the City's CIS. The rate calculation under existing rates will be presented here, with the alternative rates by customer class presented as an appendix B.

5.3.1 Volumetric Rate Calculations

As mentioned above, the City did not indicate a desire to significantly modify the existing wastewater rate structure. Therefore RFC maintained various components of the existing water volumetric rates including:

- The existing inside/outside city differential (i.e. outside=110% of inside)
- The existing structure which charges the same volumetric rates for all customer classes
- The existing shift of some volumetric costs to the fixed service charge (i.e. a readiness to serve adjustment)

The calculation of the wastewater volumetric rates involves the following steps

- Determine total composite volumetric revenue requirement:
    - Adjust the test-year revenue requirement allocated to the volume cost component by the readiness to serve amount
    - Add the wastewater strength related cost components (BOD, TSS and Phosphorous)
    - Remove Beecher Metro Revenue
    - Add the inside and outside city revenue requirements to determine a composite revenue requirement for all customer classes
- Determine the composite wastewater units:
    - Multiply the units of inside and outside city customers by the existing I/O differential (Outside=110% of Inside)
    - Add those units together.
- Calculate Inside and Outside City Volumetric Rates:
    - Determine a composite rate for all customer classes by dividing the total composite revenue requirement determined above, by the total composite wastewater units
    - Multiply the composite rates by the Inside and Outside City differentials (100% for Inside City and 110% for Outside City) to determine the rates for each customer class.

The above calculations are summarized in Table 52 on the following page.

TABLE 52: WASTEWATER VOLUMETRIC RATE CALCULATIONS

	Revenue requirements								Test Year volumes					Test year rate calculation			
	Test Year Volume RR	Test Year Strength RR Ratio	Test Year Strength RR (Strength)	Test Year Strength RR (Flow)	Test Year Total Volumetric RR	Less Revenue from Rates	Adjusted Revenue Requirement	Composite Revenue Requirement	Test Year Billed Volumes CCF	Test Year Billed Volumes w/Annualization	Test Year Differential Times (Inside City)	Test Year Adjusted Consumption CCF	Test Year Composite Consumption CCF	Test Year Volumetric Rate $/CCF	Existing Volumetric Rates $/CCF	Difference $	Difference %
EXISTING RATE STRUCTURE																	
Total Inside City Flow	$ 12,175,614	$ 4,987,890	$ 4,987,890	$ 4,987,890	$ -	$ -	$ -	$ -									
RTS Adjustment	$ (11,078,309)	$ -	$ -	$ -	$ -	$ -	$ -	$ -									
Total Inside City All Classes	$ 1,115,523	$ 4,987,890	$ 4,987,890	$ 4,987,890	$ 16,079,199	$ (711,543)	$ 15,367,655	$ 15,417,914	2,982,604	100.00%	1.000	2,982,316	2,980,326	$ 5.17	4.8	$ 0.37	8%
Total Outside City Flow	$ 19,478	$ 12,099	$ 12,099	$ 12,099	$ -	$ -	$ -	$ -									
RTS Adjustment	$ (13,890)	$ -	$ -	$ -	$ -	$ -	$ -	$ -									
Total Outside City All Classes	$ 5,588	$ 12,099	$ 12,099	$ 12,099	$ 51,393	$ (17,26)	$ 50,283	$ -			1.000			$ 5.69	5.285	$ 0.42	8%
Total System	$ 1,131,215	$ 4,999,989	$ 4,999,989	$ 4,999,989	$ 16,131,183	$ (713,269)	$ 15,417,914	$ 15,417,914									

5.3.2 Fixed Charge Calculations

As noted above, the City did not express a desire to change rate structures at this time. Consequently, the following aspects of the existing rate structure have been maintained including:

- The existing inside/outside city differential (i.e. outside=120% of inside)
- The existing shift of some volumetric costs to the fixed service charge (i.e. a readiness to serve adjustment)
- The flow equivalencies for the various meter sizes

The calculation of the wastewater fixed charges involves the following steps:

- Determine total composite fixed charge revenue requirement by summing the fixed charge revenue requirements (i.e. those allocated to the customer service related cost components) and the readiness to serve revenue requirement.
- Determine the composite fixed charge wastewater units:
    - Multiply the number of inside and outside city equivalent accounts by the existing I/O differential (Outside=120% of Inside)
    - Add those units together to determine the composite number of equivalent customer accounts
- Calculate Inside and Outside City Volumetric Rates by:
    - Determine an annual composite rate for all customer classes by dividing the total composite revenue requirement determined above, by the total composite wastewater equivalent accounts
    - Determine a monthly rate for the 5/8" equivalent account by dividing the annual rate by 12.
    - Multiply the composite fixed charges by the Inside and Outside City differentials (100% for Inside City and 110% for Outside City) to determine the monthly fixed charge per 5/8" equivalent account for inside and outside city customer classes.
    - Multiply the monthly fixed charge for a 5/8" equivalent account by the meter equivalencies for each meter size to determine the monthly fixed charge for the remaining meter sizes.

The calculations described in the narrative above are summarized in Table 53 on the following page.

TABLE 53: WASTEWATER FIXED CHARGE CALCULATIONS

CUSTOMER CLASS	Readiness to Serve Adjustment: Fixed Charge Revenue Requirement	Readiness to Serve Adjustment: Adjustment	Readiness to Serve Adjustment: Readiness to Serve Revenue Req.	Base Fixed: RR Allocated on Customer Services	Base Fixed: RR Allocated on Customer Bills
Total Inside City Residential COS	$ 2,021,959	420.6%	$ 8,504,168	$ 2,021,959	$ -
Total Outside City Residential COS	$ 505	420.6%	$ 2,123	$ 505	$ -
Total Inside City Commercial/Industrial COS	$ 612,030	420.6%	$ 2,574,140	$ 612,030	$ -
Total Outside City Commercial/Industrial COS	$ 2,798	420.6%	$ 11,768	$ 2,798	$
Total Inside City Residential COS Adjustment	$ 2,021,959	$ 8,504,168			
Total Outside City Residential COS Adjustment	$ 505	$ 2,123			
Total Inside City Commercial/Industrial COS Adjustment	$ 612,030	$ 2,574,140			
Total Outside City Commercial/Industrial COS Adjustment	$ 2,798	$ 11,768			

CHARGE	Total Revenue Requirements By Charge	Composite Revenue Requirements	Equivalent Accounts	Test Year Differential ___ Times Inside City	Test Year Adjusted Equivalent Accounts	Test Year Composite Equivalent Accounts	Monthly Fixed Charge Per 5/8" Equivalent
Total Inside City Residential	$ 10,526,127	$ 10,528,755	25,436	1.00	25,436	25,444	$ 34.48
Total Inside City Commercial/Industrial	$ 3,186,170	$ 3,200,736	7,699	1.00	7,699	7,742	$ 34.45
	$ 13,712,298	$ 13,729,491	33,136		33,136	33,186	
Total Outside City Residential	$ 2,527		6	1.2	8		$ 41.38
Total Outside City Commercial/Industrial	$ 14,666		35	1.2	42		$ 41.34
	17,193		42		50		

CUSTOMER CLASS	Inside City Meter Equivalency	Inside City Meter Equivalency	Proposed Fixed Charge INSIDE CITY	Existing Fixed Charge INSIDE CITY	Difference	Proposed Fixed Charge OUTSIDE CITY	Existing Fixed Charge OUTSIDE CITY	Difference
Residential Customers								
5/8"	1.00	1.07	$ 34.48	$ 32.00	8%	$ 44.19	$ 41.01	8%
3/4"	1.47	1.46	$ 50.56	$ 46.92	8%	$ 60.35	$ 56.01	8%
1"	2.04	2.00	$ 70.41	$ 65.34	8%	$ 82.96	$ 76.99	8%
1-1/2"	2.04	2.00	$ 70.41	$ 65.34	8%	$ 82.96	$ 76.99	8%
2"	2.04	2.00	$ 70.41	$ 65.34	8%	$ 82.96	$ 76.99	8%
Commercial/Industrial Customers								
5/8"	1.62	1.51	$ 55.90	51.919	8%	$ 62.57	$ 58.12	8%
3/4"	2.01	1.92	$ 69.37	64.434	8%	$ 79.26	$ 73.62	8%
1"	2.65	2.55	$ 91.20	84.708	8%	$ 105.56	$ 98.05	8%
1-1/2"	4.31	4.29	$ 148.40	137.843	8%	$ 177.43	$ 164.80	8%
2"	6.13	6.05	$ 211.19	196.163	8%	$ 250.24	$ 232.43	8%
3"	13.69	13.62	$ 471.62	438.063	8%	$ 562.93	$ 522.87	8%
4"	22.56	23.07	$ 777.14	721.042	8%	$ 953.09	$ 886.01	8%
6"	45.62	46.09	$ 1,571.80	1459.948	8%	$ 1,905.74	$ 1,770.13	8%
8"	67.13	68.92	$ 2,312.79	2148.213	8%	$ 2,849.27	$ 2,646.52	8%
10"	91.19	91.73	$ 3,141.97	2918.392	8%	$ 3,792.41	$ 3,522.54	8%
12"	107.00	107.61	$ 3,688.72	3420.233	8%	$ 4,449.17	$ 4,132.57	8%
16"	141.36	142.17	$ 4,870.53	4523.945	8%	$ 5,919.11	$ 5,497.91	8%
20"	166.45	170.09	$ 5,734.96	5326.865	8%	$ 7,032.44	$ 6,532.02	8%

5.3.3 Summary of Existing and Forecast Wastewater Rates

Based on the calculations from the previous two sections, the existing and proposed rates for the forecast period are shown in Tables 54 and 55 on the following page.

Note that while the test year FY 2015 rates have been calculated within the cost of service study, the rates for FY 2016 and beyond are based on the overall rate revenue increase from the wastewater utility financial plan.

TABLE 54: SUMMARY OF EXISTING AND FORECAST VOLUMETRIC WASTEWATER RATES

CUSTOMER CLASS		Test Year FY 2014 Existing Rates	Test Year FY 2015 Proposed Rates	Forecast FY 2016 Proposed Rates	Forecast FY 2017 Proposed Rates	Forecast FY 2018 Proposed Rates	Forecast FY 2019 Proposed Rates	Forecast FY 2020 Proposed Rates	Forecast FY 2021 Proposed Rates	Forecast FY 2022 Proposed Rates	Forecast FY 2023 Proposed Rates	Forecast FY 2024 Proposed Rates	Forecast FY 2025 Proposed Rates
Total Inside City All Classes	($/CCF)	$ 4.80	$ 5.17	$ 5.53	$ 5.92	$ 6.10	$ 6.31	$ 6.40	$ 6.50	$ 6.69	$ 6.83	$ 6.90	$ 7.10
Total Outside City All Classes	($/CCF)	$ 5.29	$ 5.68	$ 6.08	$ 6.51	$ 6.80	$ 6.94	$ 7.08	$ 7.22	$ 7.36	$ 7.51	$ 7.66	$ 7.81

TABLE 55: SUMMARY OF EXISTING AND FORECAST WASTEWATER FIXED CHARGES

CUSTOMER CLASS	Test-Year FY 2014 Existing Rates	Test-Year FY 2015 Proposed Rates	Forecast FY 2016 Proposed Rates	Forecast FY 2017 Proposed Rates	Forecast FY 2018 Proposed Rates	Forecast FY 2019 Proposed Rates	Forecast FY 2020 Proposed Rates	Forecast FY 2021 Proposed Rates	Forecast FY 2022 Proposed Rates	Forecast FY 2023 Proposed Rates	Forecast FY 2024 Proposed Rates	Forecast FY 2025 Proposed Rates
Inside City Residential Customers												
5/8"	$ 32.00	$ 34.46	$ 36.00	$ 39.46	$ 41.26	$ 42.00	$ 42.02	$ 43.76	$ 44.66	$ 45.55	$ 46.46	$ 47.39
3/4"	$ 46.92	$ 50.56	$ 54.10	$ 57.89	$ 60.49	$ 61.70	$ 62.94	$ 64.19	$ 65.48	$ 66.79	$ 68.12	$ 69.49
1"	$ 65.34	$ 70.41	$ 75.33	$ 80.61	$ 84.24	$ 85.92	$ 87.64	$ 89.39	$ 91.18	$ 93.00	$ 94.86	$ 96.76
1 1/2"	$ 65.34	$ 70.41	$ 75.33	$ 80.61	$ 84.24	$ 85.92	$ 87.64	$ 89.39	$ 91.18	$ 93.00	$ 94.86	$ 96.76
2"	$ 65.34	$ 70.41	$ 75.33	$ 80.61	$ 84.24	$ 85.92	$ 87.64	$ 89.39	$ 91.18	$ 93.00	$ 94.86	$ 96.76
Inside City Commercial/Industrial Customers												
5/8"	$ 51.82	$ 55.90	$ 59.81	$ 64.00	$ 66.88	$ 68.21	$ 69.56	$ 70.97	$ 72.39	$ 73.84	$ 75.31	$ 76.82
3/4"	$ 64.43	$ 69.37	$ 74.23	$ 79.42	$ 83.00	$ 84.66	$ 86.35	$ 88.08	$ 89.84	$ 91.63	$ 93.47	$ 95.34
1"	$ 84.71	$ 91.20	$ 97.58	$ 104.41	$ 109.11	$ 111.29	$ 113.52	$ 115.79	$ 118.10	$ 120.47	$ 122.88	$ 125.33
1-1/2"	$ 167.04	$ 180.40	$ 193.70	$ 180.01	$ 177.55	$ 181.10	$ 184.73	$ 188.42	$ 192.19	$ 196.03	$ 199.95	$ 203.95
2"	$ 196.16	$ 211.19	$ 225.97	$ 241.79	$ 252.67	$ 257.73	$ 262.88	$ 268.14	$ 273.50	$ 278.97	$ 284.55	$ 290.24
3"	$ 438.06	$ 471.62	$ 504.64	$ 539.96	$ 564.26	$ 575.55	$ 587.06	$ 598.80	$ 610.77	$ 622.99	$ 635.45	$ 648.16
4"	$ 721.84	$ 777.14	$ 831.64	$ 889.76	$ 929.79	$ 948.39	$ 967.35	$ 986.70	$ 1,006.43	$ 1,026.56	$ 1,047.09	$ 1,068.01
6"	$ 1,459.95	$ 1,571.80	$ 1,681.82	$ 1,799.55	$ 1,880.53	$ 1,918.14	$ 1,956.50	$ 1,995.63	$ 2,035.54	$ 2,076.26	$ 2,117.78	$ 2,160.14
8"	$ 2,148.21	$ 2,312.79	$ 2,474.68	$ 2,647.91	$ 2,767.07	$ 2,822.41	$ 2,878.86	$ 2,936.44	$ 2,995.16	$ 3,055.07	$ 3,116.17	$ 3,178.49
10"	$ 2,918.38	$ 3,141.97	$ 3,361.91	$ 3,597.24	$ 3,759.12	$ 3,834.30	$ 3,910.99	$ 3,989.21	$ 4,068.98	$ 4,150.37	$ 4,233.38	$ 4,318.05
12"	$ 3,426.23	$ 3,688.72	$ 3,946.93	$ 4,223.22	$ 4,413.26	$ 4,501.52	$ 4,591.56	$ 4,683.39	$ 4,777.05	$ 4,872.60	$ 4,970.05	$ 5,069.45
16"	$ 4,523.96	$ 4,870.53	$ 5,211.47	$ 5,576.27	$ 5,827.20	$ 5,943.74	$ 6,062.62	$ 6,183.87	$ 6,307.55	$ 6,433.70	$ 6,562.37	$ 6,693.62
20"	$ 5,326.87	$ 5,734.96	$ 6,136.41	$ 6,565.96	$ 6,861.42	$ 8,998.65	$ 7,138.63	$ 7,281.40	$ 7,427.03	$ 7,575.57	$ 7,727.08	$ 7,881.62
Outside City Residential Customers												
5/8"	$ 41.01	$ 44.19	$ 47.28	$ 50.59	$ 52.87	$ 53.93	$ 55.01	$ 56.11	$ 57.23	$ 58.37	$ 59.54	$ 60.73
3/4"	$ 56.01	$ 60.35	$ 64.57	$ 69.09	$ 72.20	$ 73.64	$ 75.12	$ 76.62	$ 78.15	$ 79.72	$ 81.31	$ 82.94
1"	$ 76.99	$ 82.96	$ 88.76	$ 94.98	$ 99.25	$ 101.23	$ 103.26	$ 105.32	$ 107.43	$ 109.58	$ 111.77	$ 114.01
1-1/2"	$ 76.99	$ 82.96	$ 88.76	$ 94.98	$ 99.25	$ 101.23	$ 103.26	$ 105.32	$ 107.43	$ 109.58	$ 111.77	$ 114.01
2"	$ 76.99	$ 82.96	$ 88.76	$ 94.98	$ 99.25	$ 101.23	$ 103.26	$ 105.32	$ 107.43	$ 109.58	$ 111.77	$ 114.01
Outside City Commercial/Industrial Customers												
5/8"	$ 58.12	$ 62.57	$ 66.95	$ 71.64	$ 74.86	$ 76.36	$ 77.89	$ 79.44	$ 81.03	$ 82.65	$ 84.31	$ 85.99
3/4"	$ 73.62	$ 79.26	$ 84.81	$ 90.75	$ 94.83	$ 96.73	$ 98.66	$ 100.64	$ 102.65	$ 104.70	$ 106.80	$ 108.93
1"	$ 98.00	$ 105.50	$ 112.90	$ 120.80	$ 126.30	$ 128.82	$ 131.40	$ 134.03	$ 136.71	$ 139.44	$ 142.23	$ 145.08
1-1/2"	$ 164.80	$ 177.43	$ 189.85	$ 203.14	$ 212.28	$ 216.52	$ 220.86	$ 225.27	$ 229.78	$ 234.37	$ 239.06	$ 243.84
2"	$ 252.43	$ 250.24	$ 267.76	$ 286.50	$ 299.39	$ 305.38	$ 311.49	$ 317.72	$ 324.07	$ 330.55	$ 337.17	$ 343.91
3"	$ 622.87	$ 662.93	$ 602.33	$ 644.49	$ 673.60	$ 686.97	$ 700.71	$ 714.72	$ 729.01	$ 743.59	$ 758.47	$ 773.61
4"	$ 886.01	$ 953.89	$ 1,020.66	$ 1,092.10	$ 1,141.25	$ 1,164.07	$ 1,187.36	$ 1,211.10	$ 1,235.32	$ 1,260.03	$ 1,285.23	$ 1,310.94
6"	$ 1,770.13	$ 1,905.74	$ 2,039.14	$ 2,181.88	$ 2,280.07	$ 2,325.67	$ 2,372.18	$ 2,419.62	$ 2,468.02	$ 2,517.38	$ 2,567.72	$ 2,619.08
8"	$ 2,648.52	$ 2,849.27	$ 3,048.72	$ 3,262.13	$ 3,408.93	$ 3,477.11	$ 3,546.65	$ 3,617.58	$ 3,689.92	$ 3,763.73	$ 3,839.01	$ 3,915.79
10"	$ 3,522.54	$ 3,752.41	$ 4,057.88	$ 4,341.93	$ 4,537.31	$ 4,628.06	$ 4,720.62	$ 4,815.03	$ 4,911.33	$ 5,009.56	$ 5,109.75	$ 5,211.95
12"	$ 4,132.57	$ 4,449.17	$ 4,760.62	$ 5,093.86	$ 5,323.08	$ 5,429.54	$ 5,538.14	$ 5,648.90	$ 5,761.88	$ 5,877.11	$ 5,994.66	$ 6,114.55
16"	$ 5,457.91	$ 5,919.11	$ 6,333.45	$ 6,776.79	$ 7,081.75	$ 7,223.38	$ 7,367.85	$ 7,515.21	$ 7,665.51	$ 7,818.82	$ 7,975.20	$ 8,134.70
20"	$ 6,552.02	$ 7,052.44	$ 7,524.72	$ 8,051.45	$ 8,413.76	$ 8,582.04	$ 8,753.68	$ 8,928.75	$ 9,107.33	$ 9,289.47	$ 9,475.26	$ 9,664.77

5.3.4 Projected Residential Wastewater Bills

Table 56 below indicates projected wastewater bills for Residential Inside City customers with a 5/8" meter.

TABLE 56: PROJECTED RESIDENTIAL WASTEWATER BILLS

RATE IMPACT 5/8" Customer	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Monthly Usage (CCF)												
1	$ 36.00	$ 39.65	$ 42.43	$ 45.40	$ 47.44	$ 48.39	$ 49.36	$ 50.34	$ 51.35	$ 52.38	$ 53.42	$ 54.49
2	$ 41.60	$ 44.82	$ 47.96	$ 51.31	$ 53.62	$ 54.70	$ 55.79	$ 56.90	$ 58.04	$ 59.20	$ 60.39	$ 61.60
3	$ 46.40	$ 49.99	$ 53.49	$ 57.23	$ 59.81	$ 61.00	$ 62.22	$ 63.47	$ 64.74	$ 66.03	$ 67.35	$ 68.70
4	$ 51.20	$ 55.16	$ 59.02	$ 63.15	$ 65.99	$ 67.31	$ 68.66	$ 70.03	$ 71.43	$ 72.86	$ 74.31	$ 75.80
5	$ 56.00	$ 60.32	$ 64.55	$ 69.06	$ 72.17	$ 73.62	$ 75.09	$ 76.59	$ 78.12	$ 79.68	$ 81.28	$ 82.90
6	$ 60.80	$ 65.49	$ 70.08	$ 74.98	$ 78.35	$ 79.92	$ 81.52	$ 83.15	$ 84.81	$ 86.51	$ 88.24	$ 90.01
7	$ 65.60	$ 70.66	$ 75.61	$ 80.90	$ 84.54	$ 86.23	$ 87.95	$ 89.71	$ 91.51	$ 93.34	$ 95.20	$ 97.11
8	$ 70.40	$ 75.83	$ 81.14	$ 86.81	$ 90.72	$ 92.54	$ 94.39	$ 96.27	$ 98.20	$ 100.16	$ 102.17	$ 104.21
9	$ 75.20	$ 81.00	$ 86.67	$ 92.73	$ 96.90	$ 98.84	$ 100.82	$ 102.84	$ 104.89	$ 106.99	$ 109.13	$ 111.31
10	$ 80.00	$ 86.16	$ 92.20	$ 98.65	$ 103.09	$ 105.15	$ 107.25	$ 109.40	$ 111.59	$ 113.82	$ 116.09	$ 118.42

6. DISCUSSION OF BEST MANAGEMENT PRACTICES (BMP)

We reviewed the City's water and wastewater utility performance in relation to Best Management Practices that have been published by Fitch Ratings ("Fitch"). These criteria are used by Fitch when reviewing the performance of a utility as part of the bond rating process.

6.1 FINANCIAL PROFILE

"Long term integrated financial forecasting that considers future demand, expected rate increases, regulations, and infrastructure renovation and renewal needs."

In general, the City's practices are consistent with this BMP. This report includes ten year comprehensive financial plans for both the water and wastewater utilities. These were developed in collaboration with City staff and reflect the rate revenue increases necessary to adequately fund operation and maintenance expenditures, make necessary capital improvements and ensure fiscal sustainability for each utility on a going forward basis. In addition to these general objectives, the water utility financial plans reflect the transition from DWSD to the KWA, which is expected to lower the level of future rate increases and afford the City greater control over the water utility's operating costs.

"Policies ensure appropriate financial margins, including debt service coverage and operating liquidity levels."

In general the City is taking steps to improve consistency with this BMP. The aforementioned water and wastewater utility financial plans move the City towards an operating reserve target of 90 days of O&M and debt service. These reserves are critical to mitigate the risk inherent in operating a seasonal enterprise. That said, it is also importance to recognize the sensitivity of ratepayers to further increases, especially given the relatively high level of existing rates. Consequently, the City has decided to work up to the 90 day target over the next few fiscal years to mitigate the potential rate impact.

Coverage of existing water utility debt service is quite strong. This stems primarily from the fact that, given the City's past financial difficulties, it has limited access to capital markets for the purpose of funding its capital improvements. At this time, all major capital improvements are forecast to be made out of current rate revenues. If this policy is maintained throughout the forecast period, water utility debt service coverage will likely continue to improve. In the future the City may choose to leverage its water revenues via the Michigan Drinking Water Revolving Revenue Fund, which would spread the rate impact of the forecast capital improvements. Currently, the City does not have any outstanding wastewater debt.

"Regular financial reporting and monitoring systems enable policymaker's access to timely information on fiscal performance relative to the budget."

It is our understanding that the City's reporting systems are consistent with this BMP.

"Limited exposure to growth sensitive revenues, such as tap, connection, or impact fees."

The City's practices are consistent with this BMP. The City currently receives little to no revenue from growth related fees, mostly due to the fact that customer account growth has largely been negative or flat in recent years. Consequently the City is not overly reliant on such fees. However, if customer account growth becomes positive in the future, the City should consider implementing growth related fees to ensure that new customers are adequately compensating existing customers for their investment in the water and wastewater systems.
"Collection policies that regularly track the rate of timely payment receipts and enforce penalties against late payers or terminate service for non-payment."

The City has taken steps to improve consistency with this BMP. In recent years, account delinquency and non-payment has become a significant problem for the City. In addition, City staff has cited issues regarding potential water theft. Given these challenges, the City has engaged a consulting firm to aid in the analysis of their customer information system data, in an effort to recover the lost revenue associated with these issues. This is a critical in that it ensures paying customers are not bearing the burden of water theft going forward.

"Willingness of political leaders to adjust rates when necessary."

The City's practices are consistent with this BMP. Emergency Manager Darnell Early has the authority to raise rates as necessary to ensure the ongoing financial sustainability of the water and wastewater utilities. It is our understanding however, that input from political stakeholders will continue to be part of that City's rate adjustment process going forward.

"Limited exposure to financial operations of the general government, so that system revenues can be relied upon for use to operate and improve the utility. For transfers to the general fund policies that specifically limit their scope and growth are favorable."

The City is taking steps to improve consistency with this BMP. It is our understanding that approximately $10 million is due from the City's general fund to the water and wastewater utilities. A potential course of action would be to reduce the amount of administrative fees the water and wastewater utilities pay each year to the general fund, until the amount owed is paid back in full. Regardless of the method, the City has indicated that, as a worst case scenario, the general fund would repay the amount owed to the water and wastewater utilities by FY 2019.

"Compliance with industry accounting practices and establishment of appropriate internal controls."

It is our understanding that the City's accounting practices adhere to the generally accepted accounting practices ("GAAP") set forth by the Governmental Accounting Standards Board ("GASB").

"Rate affordability guidelines that consider absolute levels of rates and their affordability relative to income levels."

The City is working to improve consistency with this BMP. Affordability is a critical consideration for the City especially given the relatively high level of existing rates. As mentioned above, a key component of this study involved analyzing the impact of transitioning from DWSD to the KWA, a policy which should generate savings to ratepayers in lieu of what would have happened had the City continued to purchase water from DWSD.

6.2 DEBT PROFILE RELATED

"Prioritized capital improvement plans that cover at least five years and consider capacity, supply, regulatory and replacement and renewal needs."

The City's practices are consistent with this BMP. The City has provided five year capital improvements plans for the water and wastewater utilities as well as guidance for forecasting beyond that period, both of which have been incorporates into the water and wastewater financial plans. Based on our experience with utility operations and an examination of the provided plans, it is our opinion that the City is working to address capacity, supply and regulatory issues.

"Debt issuance policies including types, terms, and suitability under specific conditions, as well as the amount of variable-rate debt deemed appropriate."

Currently the City's wastewater utility has no debt and the level of water utility relatively modest. Though the debt associated with the joining KWA will increase this amount in the coming years, it will not reach unsustainable levels.

"Development of comprehensive policies on the use of hedge agreements and their disclosure prior to entering into any such agreements."

The water and wastewater utilities are not currently party to any such agreements and there are no plans to utilize such agreements in the future.

6.3 OPERATING PROFILE RELATED

"Key management industry experience and active participation in organizations that keep pace with sector issues, regulatory mandates and technological advances."

The City's practices are consistent with BMP in this regard.

"Use of professional engineers, either within the utility or outside of it, to prepare objective reviews of system performance and needs on regular basis and provide periodic revisions to construction cost estimates."

The City's practices are consistent with BMP in this regard.

"Regular consultation with regional and local growth planners, community development officials, and demographers to predict and, if possible, limit infrastructure needs related to population and business growth."

The City has been very active in such activities in recent years, as evidenced by their participation in the KWA effort to secure a more economical source of water to better meet the City's needs in the future.

APPENDICES

APPENDIX A: ALTERNATIVE WATER VOLUMETRIC RATES

	% Allocation of Costs to Blocks			Allocation of Cost Components to Blocks			Test Year	WD Differential			Block Rate Calculations				
	Base Demand Units	Max Day Extra Capacity	Max Hour Extra Capacity	Base Demand Units	Max Day Extra Capacity	Max Hour Extra Capacity	Consumption of Block CCF	Test Year Differential ___ Times Inside City	Test Year Adjusted Consumption CCF	Test Year Composite Consumption CCF	Test Year Proposed Steepness	Existing Rates	Test Year FY 2015 Proposed Block Rates	Difference $	Difference %
RATE DESIGN BY CUSTOMER CLASS															
Inside City Residential															
Inside City Block 1	100%	55%	50%	$ 1,000,619	$ 7,456,474	$ 306,545	1,625,912	1.000	1,625,913	1,636,755	1.30	$ 7.52	$ 6.50	$ (1.02)	-14%
Inside City Block 2		15%	5%	$ -	$ 1,317,966	$ 30,654	88,595	1.000	88,599	89,924	1.25	$ 7.31	$ 6.25	$ (1.06)	-15%
Inside City Block 3	0%	0%	45%	$ -	$ -	$ 275,890	31,023	1.000	31,023	31,023	1.00	$ 5.79	$ 5.00	$ (0.79)	-14%
	100%	100%	100%	$ 1,000,619	$ 8,700,440	$ 613,089	1,745,530		1,745,535	1,757,703					
Outside City Residential															
Outside City Block 1	100%	55%	50%	$ 7,017	$ 46,656	$ 1,604	7,225	1.500	10,843		1.30	$ 11.26	$ 9.74	$ (1.51)	-13%
Outside City Block 2		15%	5%	$ -	$ 8,246	$ 159	684	1.500	1,025		1.25	$ 10.77	$ 9.37	$ (1.39)	-13%
Outside City Block 3	0%	0%	45%	$ -	$ -	$ 1,626	-	1.500	-		1.00	$ 8.66	$ 7.50	$ (1.16)	-14%
	100%	100%	100%	$ 7,017	$ 53,842	$ 3,389	8,132		12,168						
Total residential															
Inside City Commercial/Industrial															
Inside City Block 1	100%	55%	50%	$ 3,900,409	$ 7,043,174	$ 377,792	111,702	1.300	111,702	145,560	1.30	$ 7.18	$ 9.37	$ 2.05	27%
Inside City Block 2		15%	5%	$ -	$ 1,243,737	$ 27,179	860,757	1.300	860,757	875,167	1.25	$ 7.37	$ 9.20	$ 1.89	26%
Inside City Block 3	0%	0%	45%	$ -	$ -	$ 250,013	511,780	1.300	511,780	531,522	1.00	$ 5.79	$ 7.36	$ 1.57	27%
	100%	100%	100%	$ 3,900,409	$ 8,284,911	$ 655,005	1,484,239		1,484,239	1,552,249					
Outside City Commercial/Industrial															
Outside City Block 1	100%	55%	50%	$ 68,646	$ 165,617	$ 5,930	3,296	1.500	4,943		1.30	$ 11.26	$ 14.35	$ 3.10	27%
Outside City Block 2		15%	5%	$ -	$ 29,226	$ 590	9,007	1.500	14,410		1.25	$ 10.77	$ 13.80	$ 3.04	28%
Outside City Block 3	0%	0%	45%	$ -	$ -	$ 6,338	13,361	1.500	20,042		1.00	$ 8.77	$ 11.04	$ 2.27	27%
	100%	100%	100%	$ 68,646	$ 194,843	$ 11,858	26,266		39,400						
Total Commercial/Industrial															
Inside City Lawn															
Inside City Block 1	100%	55%	50%	$ 22,129	$ 261,767	$ 7,113	6,804	1.000	6,804	6,804	1.30	$ 7.618	$ 27.01	$ 19.40	255%
Inside City Block 2		15%	5%	$ -	$ 44,428	$ 717	1,062	1.000	1,062	1,062	1.25	$ 7.37	$ 25.97	$ 18.60	252%
Inside City Block 3	0%	0%	45%	$ -	$ -	$ 6,402	-	1.000	-	-	1.00	$ 5.790	$ 20.77	$ 14.98	259%
Outside City Lawn															
Outside City Block 1	100%	55%	50%	$ -	$ -	$ -	-	1.500	-		1.30	$ 11.259	$ 40.51	$ 29.25	260%
Outside City Block 2		15%	5%	$ -	$ -	$ -	-	1.500	-		1.25	$ 10.765	$ 38.65	$ 28.19	262%
Outside City Block 3	0%	0%	45%	$ -	$ -	$ -	-	1.500	-		1.00	$ 8.677	$ 31.10	$ 22.43	258%
	100%	100%	100%	$ -	$ -	$ -	$ -		-						
Total Lawn															

APPENDIX B: ALTERNATIVE WASTEWATER VOLUMETRIC RATES

		Test Year Volumes					Test Year Rate Calculation			
	Composite Revenue Requirement	Test Year Billed Volumes CCF	Test Year Billed Volumes % Breakdown	Test Year Differential ____ Times Inside City	Test Year Adjusted Consumption CCF	Test Year Composite Consumption CCF	Test Year Volumetric Rates $/CCF	Existing Volumetric Rates $/CCF	Difference $	Difference %
RATE DESIGN BY CUSTOMER CLASS										
Total Inside City Residential COS										
Total Inside City Residential COS Adjustment										
Total Inside City Residential	$ 5,500,320	1,576,668	52.08%	1.000	1,576,668	1,576,002	$ 3.40	4.9	$ (1.5')	-27%
Total Outside City Residential COS										
Total Outside City Residential COS Adjustmen:										
Total Outside City Residential		208	0.01%	1.100	228		$ 3.84	5.285	$ (1.44)	-27%
Total Inside City Commercial/Industrial COS										
Total Inside City Commercial/Industria COS Adjustment										
Total Inside City Commercial/Industria	$ 9,908,586	1,398,721	46.90%	1.000	1,398,721	1,406,434	$ 7.05	4.8	$ 2.25	47%
Total Outside City Commercial/Industrial COS										
Total Outside City Commercial/Industrial COS Adjustment										
Total Outside City Commercial/Industrial		7,012	0.24%	1.100	7,713		$ 7.75	5.285	$ 2.46	47%

From: Hollins, Harvey (GOV)
Sent: Thursday, February 12, 2015 3:59 PM
To: Workman, Wayne (TREASURY); Saxton, Thomas (Treasury); Baird, Richard (GOV); Muchmore, Dennis (GOV)
Subject: RE: Flint water

Thanks Wayne.

From: Workman, Wayne (TREASURY)
Sent: Wednesday, February 11, 2015 3:02 PM
To: Saxton, Thomas (Treasury); Hollins, Harvey (GOV); Baird, Richard (GOV); Muchmore, Dennis (GOV)
Subject: Fwd: Flint water

See below from Jerry

Sent from my iPhone

Begin forwarded message:

> **From:** "Gerald Ambrose" <gambrose@cityofflint.com>
> **To:** "Workman, Wayne (TREASURY)" <WorkmanW@michigan.gov>
> **Cc:** "Widigan, Robert (TREASURY)" <WidiganR@michigan.gov>, "amooney@cityofflint.com" <amooney@cityofflint.com>, "Saxton, Thomas (Treasury)" <SaxtonT@michigan.gov>
> **Subject: Re: FW: Flint water**
>
> We followed the recommendations of the RFC rate study. Their recommendations encompassed the knowledge of leaving DWSD, as well as the impending increase in costs associated with KWA once connected (City share of debt service), and the need for significant reinvestment in the utility system infrastructure, and a desire to level out future rate increases.
>
> Copy of the RFC study attached.
>
> Jerry
>
> On Wed, Feb 11, 2015 at 12:31 PM, Workman, Wayne (TREASURY) <WorkmanW@michigan.gov<mailto:WorkmanW@michigan.gov>> wrote:
> Please see Harvey`s question as to rationale for 2014 rate increase
>
> From: Hollins, Harvey (GOV)
> Sent: Wednesday, February 11, 2015 12:27 PM
> To: Saxton, Thomas (Treasury)
> Cc: Muchmore, Dennis (GOV); Wisniewski, Wendy (GOV); Workman, Wayne (TREASURY)
> Subject: Re: Flint water
>
> Why did the rates go up after the connection to the Flint river?

Best,
Harvey

On Feb 11, 2015, at 12:21 PM, Saxton, Thomas (Treasury)
<SaxtonT@michigan.gov<mailto:SaxtonT@michigan.gov>> wrote:
Dennis – the attached pdf is the memo & table that hopefully addresses some of the info needs stemming from the meeting with the pastors last week. Jerry A. has looked at this document as well. In terms of key items at this point (that are mentioned in the memo)….

KWA may be hooked up by the end of this calendar year; weather permitting, etc. Even allowing for some slippage that is positive news

Whether you hooked to DWSD thru the county or directly; it is a $1mm add'l impact to the budget… an add'l 30% increase in rates over existing

They have $2mm already baked in the budget to fix that two mile 'bad' section of pipeline that might address a good portion of the current issues

They now have an outside consultant on the ground who is suppose to provide some preliminary indications next week to help improve the situation

Don't forget about the $2mm SRF loan restructuring (which we have not officially put on the table). Those $s would be available for more system improvements.

Again, sorry this took as long as it did. Let us know if this is what you had in mind or if you need anything else. Wayne – chime in if I missed anything.

See you @ 1:30

<FlintWater.pdf>

From: Hollins, Harvey (GOV)
Sent: Monday, February 16, 2015 2:23 PM
To: Muchmore, Dennis (GOV)
Subject: Re: Flint Water Bills

Follow Up Flag: Follow up
Flag Status: Completed

Thanks, that background is helpful.

I followed up with Detroit last week on the bill extensions and cut offs and the program is working better than expected. This is a model that I will be working with Jerry to adopt in Flint

Best,
Harvey

> On Feb 16, 2015, at 12:41 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:
>
> This is an old note which summarizes some of the early issues with the system and why they wanted to go to the KWA. Thought you might be interested. Did we get any info for the ministers about how the Detroit bill extensions and cut offs are working?
>
> From: Stibitz, Brom (Treasury)
> Sent: Monday, March 04, 2013 4:00 PM
> To: Muchmore, Dennis (GOV)
> Cc: Dillon, Andy (Treasury)
> Subject: Flint Water Bills
>
> Dennis,
>
> There is some information attached on the Flint water issue you asked us about. I summarize a few of the key points:
>
>
> · The water system has been running at deficits for years. When the previous EFM left the City in 2004, the water system has a reserve of approximately $60 million. When Mike Brown was appointed, this had turned into a $20 million deficit due to years of not passing along to consumers the rate increases of over 10% hitting the system from DWSD. Slides 5 & 6 of the attached power point show this pretty dramatically.
>
> · Substantial increases over the past few years are an attempt to reflect the actual costs of running the system.
>
> · Another concern raised by DHS was the increase in the deposit for rental properties. This was necessary because renters paid the previous $100 deposit, then racked up water bills in excess of this amount and walked away. Of the affidavits currently out there, 82% are past due. I would also note that this is not mandatory, it is only required if a landlord is not willing to put the water bill in their name.
>
> · The bottom line is that they realize it is an issue, but the General Fund doesn't have the money to run general City operations, much less subsidize water rates.
>

> The two page word document (attached) provided by the EFM gives you a good overview of what is going on. They believe that a switch to KWA is part of the solution for high water rates in the City.
>
> Brom
>
> <Water Forum - Final.ppt>
> <WATER RATES deposits.doc>

From: Hollins, Harvey (GOV)
Sent: Friday, February 20, 2015 12:57 PM
To: Elizabeth Murphy
Cc: Gerald Ambrose; Workman, Wayne (TREASURY)
Subject: RE: Flint Water Cost Analysis

Ms. Murphy,
Thank you. The calculations in the table was provided by treasury and I was seeking clarification. I am not a water expert, but I learned that typically, most rates have two components.

1. Fixed-cost recovery charge
This charge is based on the size of the water meter at the home or business. Most residential customers will have a meter between 5/8$^{th's}$ of an inch and 1 inch.

2. Consumption Charge
This charge is based on the amount of water used. The rate for usage is determined by the distance and elevation of the home or business from the water source.

MCF is used in many place for calculating rates; however, since Flint is currently not using this calculation, what are the cost components that make up the $149 avg. monthly charge to the resident?

Best,
Harvey

From: Elizabeth Murphy [mailto:emurphy@cityofflint.com]
Sent: Thursday, February 19, 2015 9:49 AM
To: Hollins, Harvey (GOV)
Cc: Gerald Ambrose; Workman, Wayne (TREASURY)
Subject: Flint Water Cost Analysis

Mr. Hollins,
Jerry Ambrose asked me to respond to your request for more information on the Flint water cost analysis chart which you sent him yesterday. Please see the attached chart; it contains an added analysis by Jerry. The sections for which you asked for data can not be provided as we don't calculate prices in the manner you are comparing.

Jerry's chart clearly represents what Flint has been talking about - a major increase in water rates would be necessary to pay the additional charge to purchase DWSD water.

--
Liz Murphy

Assistant to the Emergency Manager
City of Flint
810 237 2025

From: Hollins, Harvey (GOV)
Sent: Friday, February 20, 2015 2:47 PM
To: Gerald Ambrose
Cc: Elizabeth Murphy; Workman, Wayne (TREASURY)
Subject: Re: Flint Water Cost Analysis

Jerry,
Thank you very much. I believe 1MCF equals 7480 gallons of water. If that is true then 10 units = 1 MCF.
Best,
Harvey

On Feb 20, 2015, at 1:40 PM, Gerald Ambrose <gambrose@cityofflint.com> wrote:

> Harvey,
>
> Quick response, subject to verification by Liz Murphy:
>
> Components of the average charge:
>
> $ 57.38 fixed-cost recovery charge
> $ 91.63 consumption charge
> $149.01
>
> Consumption charge based on 7 units of water @$13.09 per unit
>
> 1 unit = 748 gallons of water
>
> There may be a way to convert a unit into an MCF, but I do not know it.
>
> Jerry
>
> On Fri, Feb 20, 2015 at 12:56 PM, Hollins, Harvey (GOV) <hollinsh@michigan.gov> wrote:
>
> Ms. Murphy,
>
> Thank you. The calculations in the table was provided by treasury and I was seeking clarification. I am not a water expert, but I learned that typically, most rates have two components.
>
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Liz Murphy

Assistant to the Emergency Manager

City of Flint

810 237 2025

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Friday, January 02, 2015 7:21 PM
Subject: PRESS RELEASE: Flint Takes Steps to Address Water System Issues
Attachments: Flint Water TTHM Release.pdf

For Immediate Release:

City of Flint Takes Proactive Measures to Improve Water Distribution System and Address Compliance Issues

Flint, Michigan – January 2, 2015 – The City of Flint's Department of Public Works has been actively working to address upgrades and repairs to the city's water distribution system. These actions appear to have corrected several long time concerns with the system as well as known compliance issues with the system, including a recent temporary increase in the maximum contamination level (MCL) of trihalomethanes (TTHM) found in water samples collected from the system during a testing period which ended November 30, 2014. The public was notified of the violation as a precautionary measure as required by the Michigan Department of Environmental Quality (MDEQ).

TTHM is a common by-product of the water chlorination process. Increased levels in some water samples collected in the city were an indicator of weaknesses in the distribution system and treatment process, which were due to years of deferred repairs and upgrades to a very old system. The City of Flint's DPW is and has been pursuing a comprehensive plan to make critical upgrades to its water distribution system for the long term health and operation of the system and to mitigate any future issues.

The levels of TTHM in the water were elevated marginally above the MCL in some samples, resulting in a less urgent "Tier 2" Environmental Protection Agency notification. This means that the EPA believes there is no immediate risk to consumers and/or the system may have already returned to acceptable levels by the time the notice was issued. Although TTHM is considered to be an environmental pollutant that can be carcinogenic, it

can only be hazardous if consumed in water containing the elevated levels at a rate of two liters per person, per day for 70 years. The City of Flint wants to assure the public that according to the MDEQ the water is safe for drinking and all other purposes.

The City of Flint worked closely with the MDEQ to correct the issue by flushing hydrants and replacing key valves in the distribution system. These measures have shown to be effective in not only lowering the TTHM levels in the system, but have also improved the overall health of the system. The Michigan DEQ has acknowledged and appreciates the progress of the City's preemptive evaluation of operations which identified the deficiencies and the corrective measures being taken. The latest round of testing has shown a significant decrease in levels across the board, with most samples falling well below the MCL. It is expected that all sample levels will be well below the MCL in the next round of quarterly scheduled testing in March of 2015.

Flint's DPW welcomes the rigorous review of the MDEQ to ensure steady progress is made on this important issue. "Our proactive plan of replacing valves, flushing hydrants and making other adjustments to the system has shown both promising short term results as well as strengthening our water distribution capability in the long term," said Flint DPW Director Howard Croft. Both the City of Flint and the MDEQ expect the corrective measures being implemented will resolve the issue by early 2015.

The improvements in MCL levels also mirror the increased consistency being seen in chlorine residuals, flow rates, and overall water quality within the city. As part of the DPW strategic plan and Capital Improvement Plan, there are additional improvements coming to the 600 miles of distribution main including, pipe replacements, leak detection, hydraulic modeling, and enhanced asset management features. The Department of Public Works will continue to provide public education and communication about the quality, the process, and the continual improvements occurring within the system as part of the overall management of the water system.

–END–

Interviews can be arranged by responding to this email with requests.

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

CITY OF FLINT
OFFICE OF EMERGENCY MANAGER
DARNELL EARLEY
ICMA-CM, MPA

Jason Lorenz
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–CONTINUE–

CITY OF FLINT
OFFICE OF EMERGENCY MANAGER
DARNELL EARLEY
ICMA-CM, MPA

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–CONTINUE–

City Hall
1101 S. Saginaw Street - Flint, Michigan 48502
810-766-7346 FAX: 810-766-7218 www.cityofflint.com

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–END–

From: Murray, David (GOV)
Sent: Monday, January 26, 2015 4:34 PM
To: Hollins, Harvey (GOV); Muchmore, Dennis (GOV)
Subject: FW: dayne walling/request for comment
Attachments: flintwater_oped_final1.docx

Hi Chief and Harvey,

Sara asked me to put this Flint Journal guest column from the Flint mayor (attached) on your radar. Mayor Walling is seeking to drag the governor into the conflict with both hands, even demanding that the governor visit the city.

Sara mentioned that it was the City of Flint that wanted to make the change in the first place, and wanted to determine whether that's a point you think we should make. We've been staying very high-level at this point.

Thanks for your assistance!

Dave

From: Fonger, Ronald
Sent: Monday, January 26, 2015 2:28 PM
To: Murray, David
Subject: dayne walling/request for comment

Dave:
I'm attaching an op-ed that Flint Mayor Dayne Walling has given MLive-The Flint Journal. I'm writing a story about his request that the governor visit Flint.
I did hear back from Terry Stanton the last time we asked for a response to the mayor's water improvement plan and I used his comments, however Walling has told me since that he's expecting a response from the governor himself and I'll probably be using that in the story I'm working on also.

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

By Flint Mayor Dayne Walling

Access to safe and clean water is a basic human right. And a citizen's right to safe drinking water should not be based on how much money you earn, the neighborhood you live in or if your local government is under the control of an emergency manager.

All citizens have a fundamental right to know that such a critical resource as their water supply is safe and accessible. But that is not happening in Flint at the moment.

That is why, on January 18th, I forwarded a request that Governor Snyder adopt my Flint Water Improvement Plan. My plan, focused on the areas of safety, quality, access, investment and education, starts by calling for 100 percent safety as the standard for water.

The plan calls for reporting of water testing to the public by city officials, an amnesty program to reduce fees for Flint water turn-ons, accelerated water system capital improvements and partnerships with community organizations to help with water payment assistance. I'm also reaching out to other state and elected officials for support.

The request comes as residents, as evidenced in a series of recent community meetings, continue to have concerns about the quality of Flint's water. Earlier in 2014, several boil-the-water advisories were issued by the city because of issues with bacteria found in water in some parts of Flint. Gov. Snyder's appointed emergency manager recently told customers that Flint was in violation of the Safe Drinking Water Act because of the high level of trihalomethane (TTHM) -- a byproduct of chlorination -- in drinking water samples last year.

A contradictory order from the city saying the water was safe but could present risks for infants, the elderly and those with compromised immune systems confused residents further and compounded the worries of Flint's vulnerable populations. Marry that with costly water rates that have threatened individuals' access and you have the crisis of concern and confidence swirling in Flint today.

Sadly, because Flint is under Michigan's controversial emergency manager system of governance, locally elected officials have been largely limited to serving as sounding boards to justifiably worried Flint residents.

This is unacceptable. Not only should Governor Snyder visit Flint in the midst of this ongoing crisis, but his administration should make it the priority that the community expects.

It's time for the Snyder administration to do what is best for the citizens of Flint---immediately. There is nothing more important in Flint right now than fixing the water problems.

This will take time and money so the sooner the new investments are made, the better.

From: Murray, David (GOV)
Sent: Friday, January 30, 2015 1:36 PM
To: Muchmore, Dennis (GOV); Clement, Elizabeth (GOV)
Subject: Mayor Walling letter
Attachments: flintwater_oped_final1.docx; Mayor Walling letter.docx

Here is the letter, and the guest column from the Mayor to MLive.

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

By Flint Mayor Dayne Walling

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The request comes as residents, as evidenced in a series of recent community meetings, continue to have concerns about the quality of Flint's water. Earlier in 2014, several boil-the-water advisories were issued by the city because of issues with bacteria found in water in some parts of Flint. Gov. Snyder's appointed emergency manager recently told customers that Flint was in violation of the Safe Drinking Water Act because of the high level of trihalomethane (TTHM) -- a byproduct of chlorination -- in drinking water samples last year.

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It's time for the Snyder administration to do what is best for the citizens of Flint---immediately. There is nothing more important in Flint right now than fixing the water problems.

This will take time and money so the sooner the new investments are made, the better.

Friend,

Access to clean, safe, affordable water is a basic human right.

That's why I just sent Gov. Snyder my Flint Water Improvement Plan. It focuses on the areas of safety, quality, access, investment and education. My letter urges the governor to quickly implement these ideas so that Flint's water is 100% safe.

Please contact Gov. Snyder by calling (517) 335-6397 (or by clicking here) and ask him to take action immediately to implement my plan and ensure Flint's water is safe.

My plan offers new ideas and also builds on successful models of utility, energy and assistance programs at the state and federal levels. Here is my plan:

Safety & Quality

- 100% Safety is the standard
- City of Flint releases testing data to assure safety and expands testing to households with support from the Michigan Department of Environmental Quality
- Support alternatives for those advised not to drink the water by their doctors through the Michigan Health Endowment Fund and community partners to protect the vulnerable like seniors and infants
- Bring on experienced river water treatment operational management in the City of Flint
- Require water testing data to be released quarterly by law in all Michigan communities

Access

- Announce an amnesty program for turn-ons and reduce the turn-on cost in Flint
- Develop a revised payment plan policy to allow customers to come back on to the Flint system
- New Federal and State partnership to establish new Drinking Water Emergency Assistance Fund for customers (modeled on Federal and State energy utility programs: Low Income Home Energy Assistance Program; Michigan Energy Assistance Program; State Emergency Relief)

Investment

- Accelerate water system improvements outlined in the City of Flint Capital Improvement Plan through Federal and State Investments
- State approves City of Flint's Distressed Cities Fund applications
- Federal and State forgiveness of payment to Drinking Water Revolving Loan Fund
- Federal and State financing for future improvements
- City Water Department implements budgeted FY15 projects including leak detection, valve repairs, new pipes and meter replacements

Education

- Develop a community partnership to provide household and business customers with information on testing and conservation
- Ongoing partnership with Michigan Department of Human Services, United Way, Salvation Army and community organizations to provide information on water assistance
- Expand youth energy initiative to assist households with conservation and efficiency (piloted in summer 2014 with Northwestern High School students, EcoWorks and Consumers Energy)

The struggle with our water has gone on for too long. The state must take action and do its part.

Please ask Gov. Snyder to take action immediately to implement my plan and ensure Flint's water is safe.

Thank you for your ongoing support.

Sincerely,

Dayne

P.S. -- Please send this to friends and family so they can take action too!

From: Wurfel, Brad (DEQ)
Sent: Monday, February 09, 2015 9:21 AM
To: Wheaton, Bob (DHS); Lasher, Geralyn (DCH)
Cc: Muchmore, Dennis (GOV); Murray, David (GOV); Minicuci, Angela (DCH); Stanton, Terry A. (Treasury)
Subject: FLINT WATER NOTES

Hey, friends. Anticipating more coverage this week on Flint, want to make sure we are all looped in and on the same page. Treasury takes calls on funding and money and the EM. DEQ takes calls on water quality. Here's what I can share about the water quality part.

Total Trihalomethanes (TTHM) are a byproduct of too much chlorine to kill organic material in a water supply. They are among the 80 toxins water suppliers monitor. They are considered a long-term health hazard. As such, they're sampled from water systems every quarter. Systems are required to remain below 80 parts per billion on a yearly average (four quarters). Flint exceeded the average in the course of three quarters last year.

Water system operators around the state periodically get a high result for TTHMs. When consecutive quarters of testing remain at high levels, it's usually a sign that operators are using too much chlorine to address high levels of organic matter in their water source. This most frequently affects systems that use surface water as a source. And several municipal water systems around the state do use surface water (rivers) as a source.

When a water system exceeds this standard, the operator gets a very formally worded violation notice from DEQ that says, effectively, "hey, your numbers are high. Alert your customers and figure out how you're going to bring your numbers back down." This is not as serious as a boil water advisory situation. But, the (think decades) long-term risk of drinking water with high TTHMs is an increased risk of exposure to cancer causing agents, so it's not a situation that the state can accept as status quo.

Because TTHM is measured on an annual (quarterly) basis, it will take a couple quarters of clear results before the city's average falls below the guidelines. This means Flint will probably be issuing another public notice about TTHM in March, despite that the high samples were late last summer.

Flint's numbers have dropped dramatically since the November testing and they're presently in compliance with state drinking water standards.

The water as it leaves the plant is clean, sanitary and safe. However, the water supply system is old, poorly maintained and many residents' connections are also old and poorly maintained. Thus, some residents are experiencing water that smells off or is discolored. This is from the transmission system, not the production system. The three top issues appear to be

a. Hard water interacting with cast iron pipes, causing water that looks rusty (and likely tastes a bit irony)
b. Water sitting too long in the pipes because of valves not working properly or limited users in some sections of the system; or,
c. Residents with old homes that have cast iron connections contributing to the hard water issue.

So, how do we message this issue in light of the many variables at play?

1. Right now, water produced at the Flint plant is meeting state safe drinking water standards.
2. DEQ is aware that many residents have concerns about smell, color and other aesthetic qualities of their water. There are several potential causes for aesthetic water conditions. Residents with these concerns are encouraged to contact the City first to report problems. They also can contact the Michigan DEQ, but the City operates the system and needs to be alerted to concerns with their system to help document problem areas and prioritize improvements.
3. Total Trihalomethane (TTHM) is odorless and colorless. It is regarded as a long-term health concern. TTHM was included in the list of toxins screened under the Safe Drinking Water Act because of its potential for long-term potential health concerns. This is why it is only sampled quarterly. The water operator is required by law to notify residents when the annually averaged

standard has been exceeded, and the system operator is required to take active steps to get back into compliance with the standard for TTHM.

4. Residents received notice because the law requires transparency and works to help ensure residents can make informed decisions. The notice residents received early this month is a totally separate issue from the water discoloration issues some residents are reporting.
5. The DEQ continues working with Flint Water system operators to ensure that residents receive water that complies with state drinking water standards. This system is tested regularly and rigorously, and the results are reported to customers as outlined in the Safe Drinking Water Act.

From: Wheaton, Bob (DHS)
Sent: Wednesday, February 04, 2015 3:57 PM
To: Wurfel, Brad (DEQ)
Subject: RE: IMPORTANT MEDIA ISSUE Please call

Here's what our Bureau of Children and Adult Licensing emailed on Friday:

City of Flint Warns of Potential Health Risks Caused by the City's Drinking Water

The city says there's been too much disinfection byproduct in Flint's water system recently, something that -- over many years could cause liver, kidney or central nervous system problems and an increased risk of cancer.

The notice from the city says Flint water is safe to drink but warns that those with a severely compromised immune system, who have an infant or who are elderly may be at increased risk and should seek advice about drinking water from their health care provider.

For others, there is no need to boil water or take other actions, the notice says.

It is recommended that licensed child care providers and licensed adult foster care and homes for the aged providers seek medical advice or use bottle water when serving individuals at increased risk as outlined above.

For more information, go to to the city's website at http://cityofflint.com.

From: Wheaton, Bob (DHS)
Sent: Wednesday, February 04, 2015 3:41 PM
To: Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ)
Cc: Feuerstein, Heather (DEQ)
Subject: IMPORTANT MEDIA ISSUE Please call
Importance: High

Hi Brad, Karen,

Could one of you call me ASAP regarding a media crisis having to do with Flint water?

Thanks!

Bob Wheaton
Manager of Communications/Public Information Officer
Michigan Department of Human Services
235 S. Grand Ave. Suite 1510
P.O. Box 30037
Lansing, MI 48909
Phone: 517-373-4287
Cell: PPI
Wheaton8@michigan.gov
www.michigan.gov/dhs

From: Wheaton, Bob (DHS)
Sent: Monday, February 09, 2015 9:59 AM
To: Wurfel, Brad (DEQ)
Cc: Lasher, Geralyn (DCH); Muchmore, Dennis (GOV); Murray, David (GOV); Minicuci, Angela (DCH); Stanton, Terry A. (Treasury)
Subject: Re: FLINT WATER NOTES

Follow Up Flag: Follow up
Flag Status: Flagged

Thanks, Brad. I'll let you know of any media inquiries.

Sent from my iPhone

On Feb 9, 2015, at 9:20 AM, "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov> wrote:

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When a water system exceeds this standard, the operator gets a very formally worded violation notice from DEQ that says, effectively, "hey, your numbers are high. Alert your customers and figure out how you're going to bring your numbers back down." This is not as serious as a boil water advisory situation. But, the (think decades) long-term risk of drinking water with high TTHMs is an increased risk of exposure to cancer causing agents, so it's not a situation that the state can accept as status quo.

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235 S. Grand Ave. Suite 1510
P.O. Box 30037
Lansing, MI 48909
Phone: 517-373-4287
Cell: PPI
WheatonB@michigan.gov
www.michigan.gov/dhs

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Tuesday, February 10, 2015 2:56 PM
Subject: PRESS RELEASE: Water Consultant Announcement
Attachments: Water Consultant Announcement 2.10.15.pdf

For Immediate Release

Flint Hires International Urban Water Experts of Veolia North America to Assess City's Water Issues

Flint, Michigan – February 10, 2015 – The City of Flint has retained a team of urban water experts from Veolia North America to conduct an analysis of the city's water system. Veolia, which is the world's largest water services and technology company, will assess how Flint's water is tested and distributed, including reviewing water treatment processes and operations, laboratory testing and analysis, and engineering reports that detail the city's treatment and distribution systems.

"We understand the frustration and urgency in Flint," said David Gadis, vice president of Veolia North America's Municipal & Commercial Business. "We are honored to support your community with our technical expertise so that together we can ensure water quality for the people of the city of Flint."

Veolia anticipates its analysis to take less than two weeks, at which time they will present findings to City officials, including the Mayor, City Council and the Emergency Manager. Once the findings are presented, city officials will determine how to move forward.

"Addressing the City's water challenges are the top priority right now and it is important to bring in an independent, highly qualified team to work with us to address the safety and quality issues," said Mayor Dayne Walling.

"Until we have completed our analysis, we cannot say for certain how long it will take to provide solutions to Flint's current water situation," said Gadis. "We have extensive experience handling challenging river water sources, reducing leaks and contaminants and in managing discolored water."

"Veolia worked diligently to respond to our Request For Proposal in a thorough, professional way and demonstrated the ability to immediately support us as we ensure safe, clean water for our residents," said Emergency Manager Jerry Ambrose.

The Veolia team hit the ground running Tuesday morning, meeting with water officials to provide an overview of the work to be conducted. "We look forward to helping Flint's team find ways to address and improve the city's drinking water operation," Gadis said.

The company designs and provides water, waste and energy management solutions to communities and industries across the country, including providing water and wastewater services to 530 communities in North America. More information is available at www.veolianorthamerica.com.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

Gerald Ambrose
Emergency Manager

Dayne Walling
Mayor

Jason Lorenz
Public Information Officer
(810) 237-2039
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For Immediate Release

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–CONTINUE–

Gerald Ambrose
Emergency Manager

Dayne Walling
Mayor

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–END–

From: Wyant, Dan (DEQ)
Sent: Monday, September 28, 2015 7:18 AM
To: Muchmore, Dennis (GOV); Lyon, Nick (DCH); Hollins, Harvey (GOV)
Cc: Wurfel, Sara (GOV); Wurfel, Sara (GOV); Lasher, Geralyn (DCH); Thelen, Mary Beth (DEQ)
Subject: Proposed Press Conference on Flint Drinking Water

Per the ongoing issues in Flint concerning their drinking water, I would offer the following recommendations. Let's discuss.

Recommendation

Press Conference in Flint – Wednesday, Thursday or Friday.

Participants

Mayor of Flint
Dan Wyant – Michigan Department of Environmental Quality
Nick Lyon – Department of Community Health
Susan Hedman – Region 5 Administrator or EPA
Harvey Hollins – Governor's office
Local Public Health Department

Announcement

Federal – State – Local action plan to address Flint Drinking Water

1. Governor Snyder names Dr. Dean Sienko as Flint drinking water Public Health Advisor.
2. All Flint schools water will immediately be tested to ensure that drinking water is safe.
3. Advisories will be disseminated recommending citizens flush your cold water pipes, use only water from the cold water tap for drinking, cooking and especially for making baby formula.
4. Implementation of fully optimized corrosion controls in the Flint drinking water system.
5. Expanded water testing of at risk properties.
6. Offer water testing at no cost to Flint residents to assure water is safe.
7. Convene a safe drinking water " Technical Review Advisory" to ensure best technology, practices and science is being utilized, including EPA's expertise and assistance from their Office of Research and Development.
8. Offer bottled water and premixed formula if test results indicate high levels of lead.
9. Accelerate water system improvements to address replacement of lead service lines.

Dan Wyant, Director
Department of Environmental Quality
517-284-6700 (New Number)

From: Muchmore, Dennis (GOV)
Sent: Monday, September 28, 2015 9:01 AM
To: 'Khouri, Nick (TREASURY)'; Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Flint

I know that I'm a broken record on this one, but I need some specific attention to Flint today. I need you all to reconstruct a timeline of events from the records we have relating to the Flint KWA DWSD controversy as it is becoming unwieldy. Please go back and review the Flint procedures and find the initial decision making process relating to the switchover. The first time I remember it is in 2012 (August I think) when the county started pitching the project at council. Then we instituted Mike Brown as EM and from there on it became to a certain extent our problem. However, if I remember right, this was a Flint idea from the start. Then, if you can trace the financial drivers of the decision to present day it would be important. I think for the most part the explanation you had in the distressed cities reports were helpful…my point being that this was an idea to help the city survive and without drastic changes it wouldn't have, KWA being one of them. We'll take any other ideas that you have.

From: Workman, Wayne (TREASURY)
Sent: Monday, September 28, 2015 9:15 AM
To: Muchmore, Dennis (GOV)
Cc: Khouri, Nick (TREASURY); Saxton, Thomas (Treasury)
Subject: Re: Flint

Follow Up Flag: Follow up
Flag Status: Completed

We will get going on this

Sent from my iPhone

On Sep 28, 2015, at 9:01 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> I know that I'm a broken record on this one, but I need some specific attention to Flint today. I need you all to reconstruct a timeline of events from the records we have relating to the Flint KWA DWSD controversy as it is becoming unwieldy. Please go back and review the Flint procedures and find the initial decision making process relating to the switchover. The first time I remember it is in 2012 (August I think) when the county started pitching the project at council. Then we instituted Mike Brown as EM and from there on it became to a certain extent our problem. However, if I remember right, this was a Flint idea from the start. Then, if you can trace the financial drivers of the decision to present day it would be important. I think for the most part the explanation you had in the distressed cities reports were helpful…my point being that this was an idea to help the city survive and without drastic changes it wouldn't have, KWA being one of them. We'll take any other ideas that you have.

From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Monday, September 28, 2015 11:45 AM
To: Muchmore, Dennis (GOV)
Subject: Letter to Governor Snyder: Flint Water
Attachments: 09.28.2015-Letter-Ananich-Snyder-Water-Requests.pdf

Hi Dennis,

Senator Ananich began drafting the attached letter on Sunday and thought it would be helpful to guide our 12pm call.

Thanks,

Andy

SENATE MINORITY LEADER
JIM ANANICH

517.373.0142
senjananich@senate.michigan.gov
senatedems.com/ananich

September 28, 2015

State of Michigan
Executive Office of the Governor
P.O. Box 30013
Lansing, MI 48909

Governor Snyder,

Access to safe, affordable drinking water is a basic necessity for every community. It is completely unacceptable that respected scientific experts and our trusted local physicians have verified that the City of Flint's drinking water is dangerous for our citizens, especially our most vulnerable young people.

As a result, I am formally requesting assistance as suggested by the experts on the frontline of this public health crisis. Here are the top priorities we should work together to address:

1. **Swift transfer to a safe source of water until the Karegnondi Water Authority (KWA) project is complete next year.** Your administration has the ability to ensure a financially acceptable and responsible contract between Flint and the Detroit Water and Sewerage Department, particularly in light of the public health implications with the Flint River supply.

2. **Equally urgent is the need for corrosion control as recommended by independent scientific experts.** There are chemical treatment additives that could help reduce this corrosion. I urge you to help the city implement anti-corrosion methods immediately. The current emergency makes the January timeline unacceptable.

3. **Filters and bottled water assistance.** Flint water touches the entire city. Whether it's a person's home, work, school, restaurant or place of worship, access to safe, clean drinking water should not be hindered. Water filters, used in conjunction with corrosion control methods, are necessary to help guard against toxic exposure.

   I have been working with the philanthropic community and private sector to secure donations to acquire filters and water; however, more funds will be necessary to effectively cover the thousands of residents impacted. I would like to formally request emergency funding to help supplement the acquisition of water filters and bottled water. Any and all appropriate state or federal money to help accomplish this feat should be considered.

SENATE MINORITY LEADER
JIM ANANICH

517.373.0142
senjananich@senate.michigan.gov
senatedems.com/ananich

4. **Support for completion of the KWA pipeline.** It is presumed that the upcoming KWA pipeline will solve a number of problems associated with the current sourcing of Flint's water from the Flint River. I am requesting a meeting between representatives from your office, KWA board members and project engineers to discuss any options to expedite the pipeline's construction.

5. **A long-term commitment to addressing outdated infrastructure.** A recent EPA report just outlined the billions of dollars necessary over the next several decades to adequately secure safe water for our entire state. You have the position and opportunity to be a national leader on moving the debate forward on this topic so that we can avoid the type of catastrophe my community is grappling with today.

I look forward to working with you to deliver on these concrete and urgent action items to alleviate the public health crisis facing our residents.

We jeopardize any progress and comeback for our cities and state if we cannot ensure safe, basic necessities for our families or if we cannot come together swiftly to fix an identified, severe threat to the safety of our people.

Sincerely,

Jim Ananich
Senate Democratic Leader
District 27

cc:
U.S. Representative Dan Kildee
Mayor Dayne Walling, City of Flint
Howard Croft, City of Flint
Susan Hedman, EPA
Thomas Poy, EPA
Michael Schock, EPA-ORD
Darren Lytle, EPA-ORD
Denise Fortin, EPA
Liane Shekter-Smith, MDEQ
Pat Cook, MDEQ
Stephen Busch, MDEQ
Brad Wurfel, MDEQ
Marc Edwards, Virginia Tech

From: Muchmore, Dennis (GOV)
Sent: Monday, September 28, 2015 12:36 PM
To: Khouri, Nick (TREASURY); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: FW: Letter to Governor Snyder: Flint Water
Attachments: 09.28.2015-Letter-Ananich-Snyder-Water-Requests.pdf

This is the latest set of requests. Jim is trying to work with us to find solutions.

From: Andrew Leavitt [mailto:ALeavitt@senate.michigan.gov]
Sent: Monday, September 28, 2015 11:45 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: Letter to Governor Snyder: Flint Water

Hi Dennis,

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Thanks,

Andy

SENATE MINORITY LEADER
JIM ANANICH

517.373.0142
senjananich@senate.michigan.gov
senatedems.com/ananich

September 28, 2015

State of Michigan
Executive Office of the Governor
P.O. Box 30013
Lansing, MI 48909

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JIM ANANICH

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senatedems.com/ananich

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District 27

cc:
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Mayor Dayne Walling, City of Flint
Howard Croft, City of Flint
Susan Hedman, EPA
Thomas Poy, EPA
Michael Schock, EPA-ORD
Darren Lytle, EPA-ORD
Denise Fortin, EPA
Liane Shekter-Smith, MDEQ
Pat Cook, MDEQ
Stephen Busch, MDEQ
Brad Wurfel, MDEQ
Marc Edwards, Virginia Tech

From: Muchmore, Dennis (GOV)
Sent: Monday, September 28, 2015 2:27 PM
To: Wyant, Dan (DEQ); Lyon, Nick (DCH); Hollins, Harvey (GOV)
Cc: Wurfel, Sara (GOV); Wurfel, Sara (GOV); Lasher, Geralyn (DCH); Thelen, Mary Beth (DEQ)
Subject: RE: Proposed Press Conference on Flint Drinking Water

Thank you, you're always ahead of us. I don't have any reservations about the PC, although as I mentioned I don't see any reason to have Mr. Sienko, as we have a top notch professional in Eden Wells and certainly Tim and Geralyn if need be.

From: Wyant, Dan (DEQ)
Sent: Monday, September 28, 2015 7:18 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Lyon, Nick (DCH) <LyonN2@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Cc: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Lasher, Geralyn (DCH) <lasherg@michigan.gov>; Thelen, Mary Beth (DEQ) <THELENM2@michigan.gov>
Subject: Proposed Press Conference on Flint Drinking Water

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Press Conference in Flint – Wednesday, Thursday or Friday.

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Dan Wyant – Michigan Department of Environmental Quality
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Susan Hedman – Region 5 Administrator or EPA
Harvey Hollins – Governor's office
Local Public Health Department

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Dan Wyant, Director
Department of Environmental Quality
517-284-6700 (New Number)

From: Muchmore, Dennis (GOV)
Sent: Monday, September 28, 2015 2:53 PM
To: 'hillegond PPI
Subject: Health Endowment Fund

Getting a great deal of pressure to go to HEF for a contribution to buy water filters in Flint. I expect that this will build.

From: Hovey, Amy <Amy.Hovey@mail.house.gov>
Sent: Monday, September 28, 2015 3:26 PM
To: Muchmore, Dennis (GOV)
Subject: Flint Water Issue

Hi Dennis –

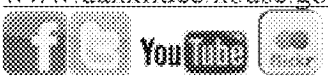
I hope things are going well with you. I saw that you are changing roles soon. Congratulations!

We cannot seem to catch a break here in Flint. Can we connect today or tomorrow regarding the Flint water issue? Or can you connect me to Harvey Hollins? I would like to understand what actions the state is taking to help with interim measures to protect our constituents from lead poison?

I need a better grasp on the initiatives than I currently have, the call this morning seemed very vague.

Thanks much!
Amy

Amy Hovey
District Chief of Staff
Congressman Dan Kildee (MI-05)
111 East Court Street, #3B.
Flint, MI 48502
Phone: 810-238-8627
www.dankildee.house.gov



http://dankildee.house.gov/newsletter-subscription/

***WE MOVED!* Please note that our OFFICES HAVE RELOCATED**

From: Muchmore, Dennis (GOV)
Sent: Monday, September 28, 2015 5:44 PM
To: 'Hovey, Amy'
Subject: RE: Flint Water Issue

Sure can, and I hope Harvey has already reached out to you.

From: Hovey, Amy [mailto:Amy.Hovey@mail.house.gov]
Sent: Monday, September 28, 2015 3:26 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: Flint Water Issue

Hi Dennis –

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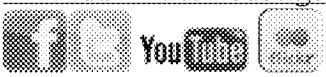

http://dankildee.house.gov/newsletter-subscription/

***WE MOVED!* Please note that our OFFICES HAVE RELOCATED**

Subject: HH/DM/KE Re: Flint Water

Start: Wed 9/30/2015 8:15 AM
End: Wed 9/30/2015 8:45 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Clayton, Stacie (GOV)
Required Attendees: Hollins, Harvey (GOV); Muchmore, Dennis (GOV); Etue, Kriste (MSP); Sands, Thomas (MSP); Wendy Wisniewski (WisniewskiW@michigan.gov); Klotz, Josephine (MSP)

Call In:
Access:
Harvey will host

PPI

From: Muchmore, Dennis (GOV)
Sent: Tuesday, September 29, 2015 11:34 AM
To: Clement, Elizabeth (GOV)
Subject: How does Kalenske fit into the Flint water issue?

Subject:	RDS/DM/BM/NL/DW/Maggie Pallone/Karen Tommasulo/Col. Etue/HH - Meeting Re: Flint Water
Location:	Governor's Office, Romney
Start:	Tue 9/29/2015 12:00 PM
End:	Tue 9/29/2015 12:30 PM
Show Time As:	Tentative
Recurrence:	(none)
Meeting Status:	Not yet responded
Organizer:	GovCalendar
Required Attendees:	Mcbride, Bill (GOV); Wisniewski, Wendy (GOV); Muchmore, Dennis (GOV); Lyon, Nick (DCH); Grijalva, Nancy (DCH); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Etue, Kriste (MSP); Klotz, Josephine (MSP); Hollins, Harvey (GOV); Clayton, Stacie (GOV); Hansen, Rachel (GOV)
Optional Attendees:	Clement, Elizabeth (GOV); Agen, Jarrod (GOV)

PPI

HH by Phone

PPI

Host: **PPI** RH to dial in as host

From: Paul Hillegonds <Paul@mhealthfund.com>
Sent: Tuesday, September 29, 2015 4:21 PM
To: Muchmore, Dennis (GOV)
Subject: RE: Health Endowment Fund

Dennis,

I spoke today with Jamie Gaskin, United Way of Genesee County. He is working with the Community Foundation of Flint and reported that the Community Foundation will be applying to us for a grant to help fund the purchase of Flint water filters. Please give me a call when you have a chance, and I can provide more details.

Thanks,

Paul

From: Muchmore, Dennis (GOV) [mailto:muchmored@michigan.gov]
Sent: Monday, September 28, 2015 2:53 PM
To: 'hillegond[redacted]PPI
Subject: Health Endowment Fund

Getting a great deal of pressure to go to HEF for a contribution to buy water filters in Flint. I expect that this will build.

From: Pallone, Maggie (DEQ)
Sent: Tuesday, September 29, 2015 4:47 PM
To: Wurfel, Brad (DEQ); Wyant, Dan (DEQ); Tommasulo, Karen (DEQ); Lyon, Nick (DCH); Hertel, Elizabeth (DCH); Lasher, Geralyn (DCH); Muchmore, Dennis (GOV)
Subject: FW: Flint Water

FYI, I asked Scott for more details. We also got a call from Senate Fiscal asking about emergency funds within DEQ.

From: Starr, Scott (DTMB)
Sent: Tuesday, September 29, 2015 4:44 PM
To: Pallone, Maggie (DEQ) <PalloneM@michigan.gov>; Howes, Sarah (DEQ) <HowesS1@michigan.gov>
Subject: Flint Water

Good afternoon,

Hearing a rumor that Sen. Ananich might be trying to add money for the Flint water issue in the FY 15 supplemental that's up in Senate Appopriations tomorrow. Just thought I'd check in and see if either or you have heard anything on this.

From: Hollins, Harvey (GOV)
Sent: Tuesday, September 29, 2015 5:28 PM
To: Muchmore, Dennis (GOV)
Subject: Filter Conversation

Today, I had a conference call with Andy Levit, Amy Hovey, Rep. Phelps and Rep. Neeley. The objective was to coordinate the acquisition and distribution of water filters for Flint residents.

>>>List of Potential Donors

Flint Community Foundation	10,000 filter request in the Health Endowment Fund Request
Meijer	Donated 1500
HomeDepot	Rich Baird to follow up
Ice Mountain	Stacie and Andy Levit have reached out to no avail
Absopure	Stacie and Andy Levit have reached out to no avail
GM	5,000-10,000 water filters via the United Way
Dow	Considering Funding through its Foundation
Coca Cola	Bottled water
UAW Region 1	Bottled water
Cindy Estrada, UAW VP	$10,000 towards the purchase of water filters
Norman Jewel, UAW	Funding
Walmart	Funding through its Foundation
McClaren Hospital	Funding
Consumers Energy	Funding
Absopure	Donating filters
Ice Mountain	Donating filters
Similac	Baby Formula
Rite Aid & Walgreens	Possible Donors

>>>DISTRIBUTION

*County Health will track distribution in coordination with Red Cross

*Request that the state provide a coordinator on the ground in Flint.

>>>ANCILLARY DISCUSSION

*Phelps said nothing on the call

*Neeley wanted to talk about the switch back to the Great Lakes Authority

*Amy asked if the Governor will declare a state of emergency in order to draw down on FEMA dollars. I indicated that we are not at the stage yet, that we should allow the experts to determine if whether an emergency exists, and in the meantime take appropriate steps to provide some relief to the residents in Flint.

Best,
Harvey Hollins III, Director
Governor's Office of Urban Initiatives

313 456 4994 (office)
PPI Cell)

From: Saxton, Thomas (Treasury)
Sent: Tuesday, September 29, 2015 5:34 PM
To: Muchmore, Dennis (GOV)
Cc: Clement, Elizabeth (GOV)
Subject: FW: FDCVT - Flint
Attachments: FDCVT Grant Apps_8-19-15.pdf; Flint River Water Quality

One of my 'take-aways' from the meeting this afternoon was to follow up on whether they could use those Distressed Cities' $s for filters. Remember last year they did receive $2mm which they used for water related items. This year they want funds for the property assessing area. Their project cost is more than the grant limit. It is not clear they realize that. The deadline application is Oct 15 if they were willing to change the application. Assuming that is doable.

With Wayne away (and before the 1:00 mtg)... a call was set up actually earlier today with Natasha Henderson. Do you care if we still do that ? The email setting it up is attached. Obviously we are not going to commit to anything.

Let me know if you need anything else.

From: Cole, Evah (Treasury)
Sent: Tuesday, September 29, 2015 4:20 PM
To: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>
Cc: Koryzno, Edward (Treasury) <KoryznoE@michigan.gov>; Pleyte, Beth (Treasury) <PleyteB@michigan.gov>; Dempkowski, Angela (Treasury) <DempkowskiA@michigan.gov>; Kolka, Carolyn (Treasury) <KolkaC@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Subject: RE: FDCVT - Flint

Tom,

Below are the answers to your questions. If you have any further questions, let us know. Thank you.

Do we know whether Flint has yet applied for any of these (FDCVT) $s ?
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Sent from my iPhone

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> **Cc:** Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Pleyte, Beth (Treasury) <PleyteB@michigan.gov>; Dempkowski, Angela (Treasury) <DempkowskiA@michigan.gov>
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> <FDCVT Grant Awards 2-3-15.pdf>

STATE OF MICHIGAN
DEPARTMENT OF TREASURY
LANSING

RICK SNYDER
GOVERNOR

NICK A. KHOURI
STATE TREASURER

August 19, 2015

FOR IMMEDIATE RELEASE
www.michigan.gov/treasury

Contact: Terry Stanton
(517) 335-2167

$5 million in grants available for local governments facing financial distress

Money for special projects to free up funds for services

Municipalities experiencing financial struggles can apply for a $5 million grant program that can help fund special projects and free up tax dollars for important services.

Applications for the Financially Distressed Cities, Villages, and Townships grant program are now available. Municipalities interested in applying for an award must submit applications to the Department of Treasury by 11:59 p.m. on Thursday, Oct. 15, 2015.

All cities, villages, and townships, experiencing at least one condition of "probable financial distress" as outlined in Public Act 436 of 2012, the Local Financial Stability and Choice Act*, are eligible to apply.

"This program offers critical assistance to municipalities facing significant financial difficulties," Gov. Rick Snyder said. "Grant dollars can help troubled cities, villages, and townships fund projects which, in turn, frees up valuable tax dollars for other critical services that benefit residents and taxpayers in those communities."

Grant funding may be used to pay for specific projects, services, or strategies that move the city, village, or township toward financial stability. Preference will be given to applicants from local units in which:

- A financial emergency has been declared in the past five years;
- An approved Deficit Elimination Plan for the General Fund is currently in place; or,
- Two or more conditions indicating "probable financial distress" currently exist.

For more information about FDCVT grants, including the application for cities, villages, and townships, visit www.michigan.gov/revenuesharing.

*Conditions of "probable financial distress" relating solely to school districts are not included as conditions for FDCVT, as school districts are not eligible.

From: Koryzno, Edward (Treasury)
Sent: Tuesday, September 29, 2015 9:58 AM
Subject: Flint River Water Quality

Natasha,

I am following up on yesterday's phone call with you.

Angela will contact you to set up a conference call for tomorrow afternoon. Because Wayne is out of town Tom Saxton will participate in the discussion regarding your request. Tom and I would request you, Peter Bade and Howard Croft be on the call.

We have a number of follow-up questions: What is the basis for the estimated $18M cost to temporarily reconnect to the Great Lakes Water Authority? What is the timeline? Why didn't Viola advise the City about the potential for elevated lead levels when using Flint river water? What assurances do you have indicating a temporary reconnection to the Water Authority resolves the elevated lead problem or other system problems? Who are the assurances from? Did the Viola report recommend using Ortho Phosphates to treat the water?

Ed

Edward B. Koryzno, Jr. | Director – Bureau of Local Government Services
State of Michigan | 430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
(517) 373-4415 | (517) 373-0633 (fax)
KoryznoE@michigan.gov

Think Green! Don't print this e-mail unless you need to.

CONFIDENTIALITY NOTICE: This e-mail, and any attachments, is for the sole use of the intended recipient(s) and may contain information that is confidential and protected from disclosure under the law. Any unauthorized review, use, disclosure, or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail, and delete/destroy all copies of the original message and attachments.
Thank you

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To: Saxton, Thomas (Treasury)
Cc: Clement, Elizabeth (GOV)
Subject: RE: FDCVT - Flint

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Sent: Wednesday, September 30, 2015 9:03 AM
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Cc: Clement, Elizabeth (GOV); Workman, Wayne (TREASURY)
Subject: RE: FDCVT - Flint

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From: Muchmore, Dennis (GOV)
Sent: Wednesday, September 30, 2015 9:06 AM
To: Hollins, Harvey (GOV)
Subject: RE: Filter Conversation

I think the deal is set for the Foundation to get $250,000 to $300,000 from the Health Endowment Fund if they follow through with the amendment. Those jerks from Progress Michigan (what a joke that they use that name) criticized us for helping the ministers with the filters.

From: Hollins, Harvey (GOV)
Sent: Tuesday, September 29, 2015 5:28 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: Filter Conversation

Today, I had a conference call with Andy Levit, Amy Hovey, Rep. Phelps and Rep. Neeley. The objective was to coordinate the acquisition and distribution of water filters for Flint residents.

>>>List of Potential Donors

Flint Community Foundation	10,000 filter request in the Health Endowment Fund Request
Meijer	Donated 1500
HomeDepot	Rich Baird to follow up
Ice Mountain	Stacie and Andy Levit have reached out to no avail
Absopure	Stacie and Andy Levit have reached out to no avail
GM	5,000-10,000 water filters via the United Way
Dow	Considering Funding through its Foundation
Coca Cola	Bottled water
UAW Region 1	Bottled water
Cindy Estrada, UAW VP	$10,000 towards the purchase of water filters
Norman Jewel, UAW	Funding
Walmart	Funding through its Foundation
McClaren Hospital	Funding
Consumers Energy	Funding
Absopure	Donating filters
Ice Mountain	Donating filters
Similac	Baby Formula
Rite Aid & Walgreens	Possible Donors

>>>DISTRIBUTION

*County Health will track distribution in coordination with Red Cross

*Request that the state provide a coordinator on the ground in Flint.

>>>ANCILLARY DISCUSSION

*Phelps said nothing on the call

*Neeley wanted to talk about the switch back to the Great Lakes Authority

*Amy asked if the Governor will declare a state of emergency in order to draw down on FEMA dollars. I indicated that we are not at the stage yet, that we should allow the experts to determine if whether an emergency exists, and in the meantime take appropriate steps to provide some relief to the residents in Flint.

Best,
Harvey Hollins III, Director
Governor's Office of Urban Initiatives

313.456.4994 (office)
PPI Cell)

From: Workman, Wayne (TREASURY)
Sent: Wednesday, September 30, 2015 9:27 AM
To: Saxton, Thomas (Treasury)
Cc: Muchmore, Dennis (GOV); Clement, Elizabeth (GOV)
Subject: Re: FDCVT - Flint

There is a STC order for reassassment. It will take 3 years so they can pay in phases. They don't all the money at once. A permanent lead solution is best but more costly. I think we need a face with just a few City people DEQ, HHS to talk about realistic options, not inflamed rhetoric

Sent from my iPhone

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Sent: Wednesday, September 30, 2015 9:32 AM
To: Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Clement, Elizabeth (GOV); Muchmore, Dennis (GOV)
Subject: Fwd: Report: Using Flint River Proving Costly To City's Water System

I heard this story in North Carolina last night. It is journalists at their worst

Sent from my iPhone

Begin forwarded message:

> **From:** "Widigan, Robert (TREASURY)" <WidiganR@michigan.gov>
> **Date:** September 30, 2015 at 8:12:58 AM EDT
> **To:** "Workman, Wayne (TREASURY)" <WorkmanW@michigan.gov>, "Koryzno, Edward (Treasury)" <KoryznoE@michigan.gov>, "Schafer, Suzanne K. (Treasury)" <SchaferS7@michigan.gov>, "Byrne, Randall (Treasury)" <ByrneR1@michigan.gov>
> **Cc:** "Dempkowski, Angela (Treasury)" <DempkowskiA@michigan.gov>, "Vandegrift, Drew (TREASURY)" <VandegriftD@michigan.gov>, "Dostine, Patrick (TREASURY)" <DostineP@michigan.gov>
> **Subject: Report: Using Flint River Proving Costly To City's Water System**
>
> Report estimates it will cost the city of Flint $1.5 billion to repair the damage done since the switch to the Flint River as a water source: http://michiganradio.org/post/report-using-flint-river-proving-costly-citys-water-system
>
> Here is a link to the site with the repot: http://flintwaterstudy.org/
>
> Robert Widigan
> Local Government Financial Services Division
> Michigan Department of Treasury
> Office (517) 373-3227 Cell (PPI

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Cc: Saxton, Thomas (Treasury); Clement, Elizabeth (GOV)
Subject: Re: FDCVT - Flint

I wish we could get realistic rather than inflamed, but I'm afraid the flames have long ago been stoked by some missteps that occurred in the switchover to Flint River water. Let's see what we can do.

On Sep 30, 2015, at 9:26 AM, Workman, Wayne (TREASURY) <WorkmanW@michigan.gov> wrote:

> There is a STC order for reassessment. It will take 3 years so they can pay in phases. They don't all the money at once. A permanent lead solution is best but more costly. I think we need a face with just a few City people DEQ, HHS to talk about realistic options, not inflamed rhetoric
>
> Sent from my iPhone
>
> On Sep 30, 2015, at 9:03 AM, Saxton, Thomas (Treasury) <SaxtonT@michigan.gov> wrote:
>
> > To be honest I am not sure... I don't have the history/background to know whether we would actually turn them/communities down (& we might) if they can't fully fund their project. I am sure that area (assessing) is in chaos as well in Flint.
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> > **Sent:** Wednesday, September 30, 2015 8:47 AM
> > **To:** Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>
> > **Cc:** Clement, Elizabeth (GOV) <clementE@michigan.gov>
> > **Subject:** RE: FDCVT - Flint
> >
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> > **To:** Muchmore, Dennis (GOV) <muchmored@michigan.gov>
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> > **Subject:** FW: FDCVT - Flint
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Subject: RE: FDCVT - Flint

Tom,

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And have they asked (& rec'd) $s from this program previously i.e., last year, and If so, what did they use those $s for?

ANSWER: Treasury awarded Flint two grants in FY 2015 under the FDCVT program. Treasury has not yet received any reimbursement requests from the City. Therefore, we have not distributed any of the FDCVT grant related funds to the City. The two grants are:

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Sent from my iPhone

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> **To:** Koryzno, Edward (Treasury) <KoryznoE@michigan.gov>; Cole, Evah (Treasury) <ColeE@michigan.gov>
> **Cc:** Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Pleyte, Beth (Treasury) <PleyteB@michigan.gov>; Dempkowski, Angela (Treasury) <DempkowskiA@michigan.gov>
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Finally, if they hadn't applied yet... given the current Flint water situation;
Could they use these grant funds to purchase filters for individual residents for use in their homes ?

If you can get back to me quickly I would appreciate it. Thanks

<FDCVT Grant Awards 2-3-15.pdf>

From: Muchmore, Dennis (GOV)
Sent: Wednesday, September 30, 2015 4:33 PM
To: Wyant, Dan (DEQ)
Subject: Flint

Are you familiar with a fund called the "Environmental Protection Fund" that you have a $1.5M balance in? Can we use that as a source? Ananich wants to put a supplemental amendment in to use that and to look at attaching it for water filters.

From: Muchmore, Dennis (GOV)
Sent: Wednesday, September 30, 2015 4:37 PM
To: Wyant, Dan (DEQ); Khouri, Nick (TREASURY); Roberts, John (DTMB)
Subject: Bottle Deposit Fund

Could we loan Flint money from the escheats fund with some repayment mechanism and use that money to accelerate the final KWA connection?

From: Dayne Walling <dwalling@cityofflint.com>
Sent: Thursday, October 01, 2015 10:47 AM
To: Muchmore, Dennis (GOV)
Subject: Flint and Detroit

COS, thanks for your team's engagement with the Flint water problems. I have been in frequent contact with DEQ Director Wyant. I do want to speak with you directly today about the Detroit water option. Please call me on my cell PPI and if easier the office number is below and our offices can secure a time.
Thanks, Dayne
--
Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
PPI
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

From: Saxton, Thomas (Treasury)
Sent: Thursday, October 01, 2015 12:15 PM
To: Muchmore, Dennis (GOV)
Cc: Clement, Elizabeth (GOV); Workman, Wayne (TREASURY); Durfee, Sally (TREASURY); Stanton, Terry A. (Treasury)
Subject: RE: FDCVT - Flint

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Cc: Clement, Elizabeth (GOV) <clemente@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Subject: RE: FDCVT - Flint

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Subject: RE: FDCVT - Flint

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Tom,

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Sent from my iPhone

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See the attached press release…noting Flint's awards (2).

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Could they use these grant funds to purchase filters for individual residents for use in their homes ?

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<FDCVT Grant Awards 2-3-15.pdf>

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Sent: Thursday, October 01, 2015 12:17 PM
To: Muchmore, Dennis (GOV); Clement, Elizabeth (GOV); Khouri, Nick (TREASURY)
Cc: Stanton, Terry A. (Treasury)
Subject: FW: Flint update

Just fyi

From: Byrne, Randall (Treasury)
Sent: Thursday, October 01, 2015 10:30 AM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Cc: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Schafer, Suzanne K. (Treasury) <SchaferS7@michigan.gov>
Subject: Flint update

Wayne:

The local television station reported this morning that the Flint Finance Director informed the City Council last night that they project a deficit of $14M in their Water and Sewer Fund at year end. I spoke to Natasha this morning and requested a copy of their budget report and a cash flow analysis to verify this information. I should have this information today.

Randy,

Randall Byrne | State Administrative Manager
Local Government Services - Office of Fiscal Responsibility
State of Michigan | 430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
(517) 335-2521 | (517) 373-0633 (fax) | ByrneR1@michigan.gov

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Cc: Clement, Elizabeth (GOV); Workman, Wayne (TREASURY); Durfee, Sally (TREASURY); Stanton, Terry A. (Treasury)
Subject: RE: FDCVT - Flint

I think we have the cost of the filters now covered.

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Cc: Clement, Elizabeth (GOV) <clemente@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Durfee, Sally (TREASURY) <DurfeeS1@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>
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> **Cc:** Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Pleyte, Beth (Treasury) <PleyteB@michigan.gov>; Dempkowski, Angela (Treasury) <DempkowskiA@michigan.gov>
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Cc: Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury)
Subject: Fwd: Flint update

Follow Up Flag: Follow up
Flag Status: Completed

So we don't forget the money; Flint is now running a $14,000,000 deficit in the WaterFund due to two lawsuits that have gone against the City. It has reduced what they can bill some folks have stopped paying believing they will be getting big credits or refunds. Also water cont be shut off for nonpayment under one suit

Sent from my iPhone

Begin forwarded message:

> **From:** "Byrne, Randall (Treasury)" <ByrneR1@michigan.gov>
> **Date:** October 1, 2015 at 10:29:51 AM EDT
> **To:** "Workman, Wayne (TREASURY)" <WorkmanW@michigan.gov>
> **Cc:** "Saxton, Thomas (Treasury)" <SaxtonT@michigan.gov>, "Schafer, Suzanne K. (Treasury)" <SchaferS7@michigan.gov>
> **Subject: Flint update**
>
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From: Microsoft Outlook
To: wisnewskiw@michigan.gov
Sent: Thursday, October 01, 2015 3:19 PM
Subject: Undeliverable: Re: City of Flint - correspondence regarding reconnection to Water Supply System

Delivery has failed to these recipients or groups:
wisnewskiw@michigan.gov (wisnewskiw@michigan.gov)
The e-mail address you entered couldn't be found. Please check the recipient's e-mail address and try to resend the message. If the problem continues, please contact your helpdesk.

Diagnostic information for administrators:
Generating server: HCS084EXHAPI001.som.ad.state.mi.us
wisnewskiw@michigan.gov
#550 5.1.1 RESOLVER.ADR.RecipNotFound; not found ##
Original message headers:
Received: from GOV000EXCHPE005.som.ad.state.mi.us
([fe80::ad2d:32b6:d4a5:f463]) by HCS084EXHAPI001.som.ad.state.mi.us
([fe80::e8a8:3e6d:1fc3:d6c1%19]) with mapi id 14.03.0235.001; Thu, 1 Oct 2015
15:18:33 -0400
Content-Type: application/ms-tnef; name="winmail.dat"
Content-Transfer-Encoding: binary
From: "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
To: "Baird, Richard (GOV)" <bairdr@michigan.gov>
CC: "wisnewskiw@michigan.gov" <wisnewskiw@michigan.gov>
Subject: Re: City of Flint - correspondence regarding reconnection to Water
Supply System
Thread-Topic: City of Flint - correspondence regarding reconnection to Water
Supply System
Thread-Index: AQHQ+8wjcv3/Sn2g9023hFdTB/LLPp5VpF4LgAFRaNGAAA6OUQ==
Date: Thu, 1 Oct 2015 15:18:33 -0400
Message-ID: <0D9B5440-85D5-4BF4-9FE5-3DC280696B40@michigan.gov>
References: <26030540.89837.1443650648679.JavaMail.root@csf-mail-zimbra.dwsd.org>,<425152679.89848.1443650724998.JavaMail.root@csf-mail-zimbra.dwsd.org>,<592B18C3-ACDD-4EB4-A6AF-2072A3E5E468@oakgov.com>,<241A1CEC9C1D244C87C180A49CBED3A3293D1AF2@GOV000EXCHPE005.som.ad.state.mi.us>
In-Reply-To: <241A1CEC9C1D244C87C180A49CBED3A3293D1AF2@GOV000EXCHPE005.som.ad.state.mi.us>
Accept-Language: en-US
Content-Language: en-US
X-MS-Has-Attach:

X-MS-TNEF-Correlator: <0D9B5440-85D5-4BF4-9FE5-3DC280696B40@michigan.gov>
MIME-Version: 1.0

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 01, 2015 3:19 PM
Subject: Re: City of Flint - correspondence regarding reconnection to Water Supply System

TY

Sent from my iPhone

On Oct 1, 2015, at 2:26 PM, Baird, Richard (GOV) <bairdr@michigan.gov> wrote:

> *Sent from my Verizon Wireless 4G LTE DROID*
> ---------- Forwarded message ----------
> From: "Daddow, Robert J" <daddowr@oakgov.com>
> Date: Sep 30, 2015 6:19 PM
> Subject: Fwd: City of Flint - correspondence regarding reconnection to Water Supply System
> To: "Baird, Richard (GOV)" <bairdr@michigan.gov>
> Cc:
>
> FYI. Received after we talked this pm.
>
> Sent from my iPad
>
> Begin forwarded message:
>
> > **From:** William Wolfson <wolfson@dwsd.org>
> > **Date:** September 30, 2015 at 6:05:24 PM EDT
> > **To:** "McKinnon, Ike" <mckinnonI@detroitmi.gov>, "Brown, Gary" <BrownGary@detroitmi.gov>, "Nardone, Joseph" <Joseph.nardone@wcaa.us>, "Hood, Ed" <edwhood.wc@gmail.com>, "baker, brian" <bbaker@sterling-heights.net>, "Daddow, Robert" <daddowr@oakgov.com>
> > **Cc:** Sue McCormick <mccormick@dwsd.org>
> > **Subject: City of Flint - correspondence regarding reconnection to Water Supply System**
> >
> > Attached is a letter that was sent to the City of Flint today regarding possible reconnection to the Water Supply System in response to an initial inquiry by Ms. Henderson, Flint's City Administrator and Ms. McCormick. As you may imagine the dialog that has begun is at a very preliminary stage, available information may be limited and outdated to some degree, and Ms. Henderson has asked that we not make a public release at this time. With that request in mind, we have asked the communications team to refer all press call to either Ms. McCormick or me. We will keep you updated as this issue develops.

This email and any files transmitted with it are confidential, may be subject to the attorney-client, attorney-work product or other privilege and are intended solely

for the use of the addressee(s). If you are not the named addressee, printing, disclosing, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited; immediately notify the sender, by email reply, if you received this message by mistake, delete the message from your system and destroy any copies.

William M. Wolfson
Chief Administrative and Compliance Officer/

General Counsel
Detroit Water and Sewerage Department
735 Randolph, Room 701
Detroit, MI 48226
Phone: (313) 224-4707
Fax: (313) 842-6510

Michael E. Duggan, Mayor

<City of Flint - September 2015 Letter - Reconnection to DWSD.pdf>

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 01, 2015 4:31 PM
To: Snyder, Rick (GOV)
Cc: Agen, Jarrod (GOV); Posthumus, Dick (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV)
Subject: Flint

Follow Up Flag: Follow up
Flag Status: Completed

I talked with Dayne Walling at length today a few minutes ago, and Harvey and I had separate meetings with one of the Flint minister groups and then Rep. Neely. Our conversations were cordial for the most with the normal concerns being expressed. I told Rep. Neely that I felt he hadn't gotten enough respect and insight into our thoughts on this and we expanded our backgrounder for him and he was very appreciative. He actually cancelled a Black Caucus meeting called for today on this due to Harvey and our meeting. I have Dan and Nick calling him just to update.

More importantly, we have the proposal back from DWSD for a reconnect:

1. Short term reconnect is ok until KWA starts operating;
2. No reconnect fee and immediate reconnect;
3. Expenses incurred at actual cost although no estimate at this time
4. A fixed monthly rate of $662,100 + a commodity rate of $8.93mcf for current 15-16 FY;
5. Rate is over and above water sales to Genesee County Drain Commission;
6. A water wholesale adjustment;
7. Only extends to Flint;
8. Rates for 16-17 FY would be the same as other customers.

Mayor Duggan is more than willing to lend his support.

I'm asking Saxton for a ballpark calculation. We would have to find them the money for this reconnect, but Dayne is more than open (as is Ananich to a lesser degree) to finding some revolving fund that they would repay perhaps on an extended basis or maybe using some guarantee to reduce the borrowing costs.

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 01, 2015 4:32 PM
To: Khouri, Nick (TREASURY); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: FW: Flint

Follow Up Flag: Follow up
Flag Status: Completed

Tom-
Need your immediate help.

Natasha has the proposal back from DWSD for a reconnect:

1. Short term reconnect is ok until KWA starts operating;
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From: Saxton, Thomas (Treasury)
Sent: Thursday, October 01, 2015 4:40 PM
To: Muchmore, Dennis (GOV); Khouri, Nick (TREASURY); Workman, Wayne (TREASURY)
Subject: RE: Flint

Follow Up Flag: Follow up
Flag Status: Completed

Let me check to see if I can get someone to do a quick calculation

---

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 01, 2015 4:32 PM
To: Khouri, Nick (TREASURY) <KhouriN@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Subject: FW: Flint

Tom-
Need your immediate help.

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1. Short term reconnect is ok until KWA starts operating;
2. No reconnect fee and immediate reconnect;
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From: Muchmore, Dennis (GOV)
Sent: Thursday, October 01, 2015 5:10 PM
To: 'Andrew Leavitt'
Subject: RE: Progress Michigan

Are you happier with me now?

From: Andrew Leavitt [mailto:ALeavitt@senate.michigan.gov]
Sent: Wednesday, September 30, 2015 9:25 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: Re: Progress Michigan

I don't know what they said so I can't speak to denouncing them. But everyday of inaction compounds the politics of this issue. We have secured around 30 thousand dollars for a filter program from several UAW VPs as well as 50k from GM. We are still waiting on a state emergency professional to help our community react professionally and promptly. The only person I have heard from since Monday's call is Director Wyatt and he has been asking good questions and seems like he recognizes a problem and wants solutions.

I say all that to say, we are happy to quiet critics and we think the best way to do that is progress. I feel like we offered several easy steps last week that would have shown prompt action and none of that has been realized. Further, we have seen DHHS working to discredit the pediatricians in our community rather than work to help the most vulnerable.

I would prefer you and I talk about this daily so we are working together but I have called you and Beth each twice with no return. I know we are all busy but I hope you will agree that more communication during,what we view as a crisis, is the best way to keep us moving forward together.

Sent from my iPhone

On Sep 30, 2015, at 9:09 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> I assume these jerks don't represent the Minority Leader but it would be nice to see a public denunciation of them from him. I'm sure they didn't volunteer any help to the Flint people or put any effort into alleviating the difficulties the city finds itself in since they never do anything positive.

From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Thursday, October 01, 2015 5:26 PM
To: Muchmore, Dennis (GOV)
Subject: Re: Progress Michigan

You moving back into our good graces. :)

A little concerned a press event is planned and scheduled without Jim having any idea what is going to take place other than what you indicated as a filter voucher program. Maggie from DEQ just emailed so I will call her and see if she has any details.

From: "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
Date: Thursday, October 1, 2015 at 5:10 PM
To: Andy Leavitt <aleavitt@senate.michigan.gov>
Subject: RE: Progress Michigan

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Subject: Re: Progress Michigan

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Sent from my iPhone

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From: Workman, Wayne (TREASURY)
Sent: Thursday, October 01, 2015 6:37 PM
To: Muchmore, Dennis (GOV)
Cc: Khouri, Nick (TREASURY); Saxton, Thomas (Treasury)
Subject: Re: Flint

Follow Up Flag: Follow up
Flag Status: Completed

This will add to the $14, million deficit. We believe they may run out cash quite soon and have asked for a cash flow projection

Sent from my iPhone

On Oct 1, 2015, at 4:32 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> Tom-
> Need your immediate help.
>
> Natasha has the proposal back from DWSD for a reconnect:
> 1. Short term reconnect is ok until KWA starts operating;
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>
> I'm asking you for a ballpark calculation. We would have to find them the money for this reconnect, but Dayne is more than open (as is Ananich to a lesser degree) to finding some revolving fund that they would repay perhaps on an extended basis or maybe using some guarantee to reduce the borrowing costs.

From: Workman, Wayne (TREASURY)
Sent: Thursday, October 01, 2015 6:38 PM
To: Saxton, Thomas (Treasury)
Cc: Muchmore, Dennis (GOV); Khouri, Nick (TREASURY)
Subject: Re: Flint

Follow Up Flag: Follow up
Flag Status: Completed

Flint has to provide usage info or we just have a SWAG

Sent from my iPhone

On Oct 1, 2015, at 4:39 PM, Saxton, Thomas (Treasury) <SaxtonT@michigan.gov> wrote:

> Let me check to see if I can get someone to do a quick calculation
>
> ---
>
> **From:** Muchmore, Dennis (GOV)
> **Sent:** Thursday, October 01, 2015 4:32 PM
> **To:** Khouri, Nick (TREASURY) <KhouriN@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
> **Subject:** FW: Flint
>
> Tom-
> Need your immediate help.
>
> Natasha has the proposal back from DWSD for a reconnect:
>
> 1. Short term reconnect is ok until KWA starts operating;
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From: Muchmore, Dennis (GOV)
Sent: Friday, October 02, 2015 9:39 AM
To: Andrew Leavitt
Subject: Re: Progress Michigan

Dan and Nick are calling Jim to lay out the strategy for him. I assume that's already happened. They would like to include Jim, but you may want to maintain a little distance until you're confident its moving the way you want.

On Oct 1, 2015, at 5:26 PM, Andrew Leavitt <ALeavitt@senate.michigan.gov> wrote:

> You moving back into our good graces. :)
>
> A little concerned a press event is planned and scheduled without Jim having any idea what is going to take place other than what you indicated as a filter voucher program. Maggie from DEQ just emailed so I will call her and see if she has any details.
>
> ---
>
> **From:** "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
> **Date:** Thursday, October 1, 2015 at 5:10 PM
> **To:** Andy Leavitt <aleavitt@senate.michigan.gov>
> **Subject:** RE: Progress Michigan
>
> Are you happier with me now?
>
> ---
>
> **From:** Andrew Leavitt [mailto:ALeavitt@senate.michigan.gov]
> **Sent:** Wednesday, September 30, 2015 9:25 AM
> **To:** Muchmore, Dennis (GOV) <muchmored@michigan.gov>
> **Subject:** Re: Progress Michigan
>
> I don't know what they said so I can't speak to denouncing them. But everyday of inaction compounds the politics of this issue. We have secured around 30 thousand dollars for a filter program from several UAW VPs as well as 50k from GM. We are still waiting on a state emergency professional to help our community react professionally and promptly. The only person I have heard from since Monday's call is Director Wyatt and he has been asking good questions and seems like he recognizes a problem and wants solutions.
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> I say all that to say, we are happy to quiet critics and we think the best way to do that is progress. I feel like we offered several easy steps last week that would have shown prompt action and none of that has been realized. Further, we have seen DHHS working to discredit the pediatricians in our community rather than work to help the most vulnerable.
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> I would prefer you and I talk about this daily so we are working together but I have called you and Beth each twice with no return. I know we are all busy but I hope you will agree that more communication during,what we view as a crisis, is the best way to keep us moving forward together.

Sent from my iPhone

On Sep 30, 2015, at 9:09 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> I assume these jerks don't represent the Minority Leader but it would be nice to see a public denunciation of them from him. I'm sure they didn't volunteer any help to the Flint people or put any effort into alleviating the difficulties the city finds itself in since they never do anything positive.

From: Andrew Leavitt <ALeavitt@senate.michigan.gov>
Sent: Friday, October 02, 2015 9:43 AM
To: Muchmore, Dennis (GOV)
Subject: Re: Progress Michigan

He has not heard from Dan or Nick, yet. Your assumption on confidence is likely to the route we will take. Jim and I very much appreciate you being a driver internally on this.

On 10/2/15, 9:38 AM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
wrote:

>Dan and Nick are calling Jim to lay out the strategy for him. I assume
>that's already happened. They would like to include Jim, but you may
>want to maintain a little distance until you're confident its moving
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>indicated as a filter voucher program. Maggie from DEQ just emailed so
>I will call her and see if she has any details.
>
>From: "Muchmore, Dennis (GOV)"
><muchmored@michigan.gov<mailto:muchmored@michigan.gov>>
>Date: Thursday, October 1, 2015 at 5:10 PM
>To: Andy Leavitt
><aleavitt@senate.michigan.gov<mailto:aleavitt@senate.michigan.gov>>
>Subject: RE: Progress Michigan
>
>Are you happier with me now?
>
>From: Andrew Leavitt [mailto:ALeavitt@senate.michigan.gov]
>Sent: Wednesday, September 30, 2015 9:25 AM
>To: Muchmore, Dennis (GOV)
><muchmored@michigan.gov<mailto:muchmored@michigan.gov>>
>Subject: Re: Progress Michigan
>
>I don't know what they said so I can't speak to denouncing them. But
>everyday of inaction compounds the politics of this issue. We have
>secured around 30 thousand dollars for a filter program from several
>UAW VPs as well as 50k from GM. We are still waiting on a state
>emergency professional to help our community react professionally and
>promptly. The only person I have heard from since Monday's call is

>Director Wyatt and he has been asking good questions and seems like he
>recognizes a problem and wants solutions.
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>I say all that to say, we are happy to quiet critics and we think the
>best way to do that is progress. I feel like we offered several easy
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>has been realized. Further, we have seen DHHS working to discredit the
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>Sent from my iPhone
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><muchmored@michigan.gov<mailto:muchmored@michigan.gov>> wrote:
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>be nice to see a public denunciation of them from him. I'm sure they
>didn't volunteer any help to the Flint people or put any effort into
>alleviating the difficulties the city finds itself in since they never
>do anything positive.

From: Dayne Walling <dwalling@cityofflint.com>
Sent: Friday, October 02, 2015 10:05 AM
To: Snyder, Rick (GOV)
Cc: Muchmore, Dennis (GOV); GovernorsOffice
Subject: Flint Water Followups Early Next Week

Dear Governor,
Thank you for your continued efforts to address the problems with Flint's water and systems. The situation is taking on greater and greater urgency even as we work to respond. I appreciate your willingness to keep all options on the table including Flint returning to Detroit water. I believe this is a necessary step given all of the complications of this past year and what we are still facing.

I spoke with Chief of Staff Muchmore yesterday afternoon. I am requesting that you work with the State Legislature to identify the new funds and financing mechanism that are needed for the switch. That is one essential aspect and we are working on the others and appreciate your team's support on those as well. I would ask for a time for us to talk about this early next week as we are also hoping to meet with DWSD in that timeframe.

Thank you again for the focus and initiatives being put forward today.

Sincerely,
Mayor Walling

--
Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
810-766-7346
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

From: Muchmore, Dennis (GOV)
Sent: Friday, October 02, 2015 10:33 AM
To: Saxton, Thomas (Treasury)
Subject: Flint

If the ballpark is $11M, and we decide to reconnect, can you think of any other reason not to do so? Can you think of any other costs that might pop up.

From: Saxton, Thomas (Treasury)
Sent: Friday, October 02, 2015 11:48 AM
To: Muchmore, Dennis (GOV)
Cc: Workman, Wayne (TREASURY)
Subject: RE: Flint

Probably not (in terms of a reason not to)... it is not clear to me that you will have an immediate fix on the water issues (e.g., coloring, lead, etc).

You will have issues/costs in standing down the water plant & costs when switching to KWA. We haven't seen those estimates.

We are in this fix in part because DWSD had kicked the City off their system so I am not sure I have a ton of confidence in their numbers or deal. Hopefully as you are saying there are no hidden costs.

And we need to figure out how best to pay for it.

-----Original Message-----
From: Muchmore, Dennis (GOV)
Sent: Friday, October 02, 2015 10:33 AM
To: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>
Subject: Flint

If the ballpark is $11M, and we decide to reconnect, can you think of any other reason not to do so? Can you think of any other costs that might pop up.

From: Muchmore, Dennis (GOV)
Sent: Friday, October 02, 2015 3:11 PM
To: Wyant, Dan (DEQ)
Subject: RE: Ananich, Neely, Kildee

THx

-----Original Message-----
From: Wyant, Dan (DEQ)
Sent: Friday, October 2, 2015 12:08 PM
To: Posthumus, Dick (GOV) <Posthumusd@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Wyant, Dan (DEQ) <WyantD@michigan.gov>; Lyon, Nick (DHHS) <LyonN2@michigan.gov>
Cc: Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Mcbride, Bill (GOV) <mcbrideb@michigan.gov>; Thelen, Mary Beth (DEQ) <THELENM2@michigan.gov>
Subject: RE: Ananich, Neely, Kildee

Yes, all were briefed at 10:30 this morning.
Neeley and Phelps will be at the press conference - the others will not be there.

Thanks.

Mary Beth (on Dan Wyant's email)

Mary Beth Thelen
Management Assistant to Director Dan Wyant Department of Environmental Quality Constitution Hall, 6th Floor South
Phone: 517-284-6712 or 284-6700 (new numbers)
Fax: 517-241-7401
Thelenm2@michigan.gov

-----Original Message-----
From: Posthumus, Dick (GOV)
Sent: Friday, October 02, 2015 11:04 AM
To: Muchmore, Dennis (GOV); Wyant, Dan (DEQ); Lyon, Nick (DHHS)
Cc: Hollins, Harvey (GOV); Mcbride, Bill (GOV)
Subject: RE: Ananich, Neely, Kildee

I don't want to assume anything. But have the legislators been briefed and asked to be at the press conference in Flint?
Dick

-----Original Message-----
From: Muchmore, Dennis (GOV)
Sent: Friday, October 02, 2015 10:32 AM
To: Wyant, Dan (DEQ) <WyantD@michigan.gov>; Lyon, Nick (DHHS) <LyonN2@michigan.gov>
Cc: Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Posthumus, Dick (GOV) <Posthumusd@michigan.gov>; Mcbride, Bill (GOV) <mcbrideb@michigan.gov>
Subject: Ananich, Neely, Kildee

Were you able to connect and brief these guys?

From: Saxton, Thomas (Treasury)
Sent: Sunday, October 04, 2015 7:01 AM
To: Khouri, Nick (TREASURY); Muchmore, Dennis (GOV)
Subject: Re: Bottle Deposit Fund

I had not forgotten about this request... Joe F. pulled some background/numbers for me. DEQ controls it in terms of how it is used programmatically. There are some $s in their fund balance. My sense is we couldn't 'loan' them money i.e., you end up with lending of credit issues. I will look at it further when I get back Tues.

From: Khouri, Nick (TREASURY)
Sent: Thursday, October 1, 2015 6:41 AM
To: Saxton, Thomas (Treasury)
Subject: Fwd: Bottle Deposit Fund

Tom

Can you track down the escheats part of the question.

Sent from my iPhone

Begin forwarded message:

> **From:** "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
> **Date:** September 30, 2015 at 4:37:17 PM EDT
> **To:** "Wyant, Dan (DEQ)" <WyantD@michigan.gov>, "Khouri, Nick (TREASURY)" <KhouriN@michigan.gov>, "Roberts, John (DTMB)" <RobertsJ9@michigan.gov>
> **Subject: Bottle Deposit Fund**
>
> Could we loan Flint money from the escheats fund with some repayment mechanism and use that money to accelerate the final KWA connection?

From: Muchmore, Dennis (GOV)
Sent: Monday, October 05, 2015 11:23 AM
To: Hollins, Harvey (GOV); Wyant, Dan (DEQ); Lyon, Nick (DHHS)
Subject: Flint

How are we protecting the citizens of Flint from profiteers selling water filters?
How do we get the filters installed for the elderly and the poor, or frankly for any citizen who doesn't have the means or ability to install one?

From: Muchmore, Dennis (GOV)
Sent: Monday, October 05, 2015 3:59 PM
To: 'Wurfel, Sara (GOV)'; Hollins, Harvey (GOV); Clement, Elizabeth (GOV); Agen, Jarrod (GOV); Priest, Chris (GOV); Baird, Richard (GOV)
Cc: Murray, David (GOV); Kennedy, Jordan (GOV); Wisniewski, Wendy (GOV); Clayton, Stacie (GOV)
Subject: RE: Release on Flint

What if they are shut ins or can't get there? Where's the relief coming from? Is the Flint Transit Authority willing to extend complimentary transportation? Who is going to explain to the recipients how the filter fits on their faucet?

I know from experience that my wife never grew up building things out of Erector Sets, and she's terrible at reading "part a attaches to part b with two bolts enclosed in the third packet. Don't use the ones marked only for Delta faucets" oh, you get the point.

Just a suggestion from a syntax point of view, the construction of the first sentence appears to allow anyone who is a DHHS client and anyone who is a Flint resident to receive a water filter. It isn't clear that it applies to a person who is a Flint resident who receives public assistance and not to other Flint residents. Secondly, don't forget that other Flint residents also should be entitled to a water filter and although the press release is about DHHS clients, we don't want to create additional confusion. A throw-away line about the other residents might be wise.

From: Wurfel, Sara (GOV)
Sent: Monday, October 5, 2015 3:42 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Priest, Chris (GOV) <PriestC1@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>
Cc: Murray, David (GOV) <MurrayD1@michigan.gov>; Kennedy, Jordan (GOV) <Kennedyj4@michigan.gov>; Wisniewski, Wendy (GOV) <wisniewskiw@michigan.gov>; Clayton, Stacie (GOV) <claytons3@michigan.gov>
Subject: FW: Release on Flint
Importance: High

Talked at length with Geralyn about this just now. Think is a good thing, and shows immediate follow up from action steps announced Friday. Added bonus is that it should be pretty easy for Flint clients and residents and have a "no wrong door" approach too just in case. Please see attached and below.

This is slated for distribution at 4 p.m. Need to hear if any concerns from anyone ASAP.

Otherwise, it's a go.

Thanks much,
SW

From: Lasher, Geralyn (DHHS)
Sent: Monday, October 05, 2015 3:19 PM
To: Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Priest, Chris (GOV) <PriestC1@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>

Cc: Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>; Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>; Hertel, Elizabeth (DHHS) <HertelE@michigan.gov>
Subject: Release on Flint
Importance: High

Attached is the draft release we would like to issue ASAP regarding the new plan for water filter distribution in the city of Flint.

At a meeting with multiple community partners today, our local MDHHS office realized they could do distribution from the 2 Flint offices as long as the local community action agency could assist them in storing the larger quantities of filters.

Locally, the groups will be issuing a press release from the local health department discussing distribution, but we feel it is important to also send this from MDHHS.

We are happy to discuss this with Ron Fonger if you want him to be the first press call we make once we issue it.

From: Paul Hillegonds <P[redacted]PPI
Sent: Tuesday, October 06, 2015 2:26 PM
To: Muchmore, Dennis (GOV)
Subject: Flint Water Filters

Dennis,

Just an update. Health Endowment Fund board members have unanimously indicated that they will be approving the Flint Community Foundation's request of $250,000 for the purchase of water filters. We have sent a letter of intent to the community foundation and United Way of Genesee County. Our letter will enable the community foundation to release funds for water filters with the assurance that we will be making a $250,000 grant later this year.

Paul

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 06, 2015 3:46 PM
To: Wyant, Dan (DEQ); Lyon, Nick (DHHS); Hollins, Harvey (GOV)
Subject: Fwd: Flint Water Filters

fyi

Begin forwarded message:

> **From:** Paul Hillegonds <Paul@mhealthfund.com>
> **Date:** October 6, 2015 at 2:26:01 PM EDT
> **To:** "Dennis Muchmore " <muchmored@michigan.gov>
> **Subject: Flint Water Filters**
>
> Dennis,
>
> Just an update. Health Endowment Fund board members have unanimously indicated that they will be approving the Flint Community Foundation's request of $250,000 for the purchase of water filters. We have sent a letter of intent to the community foundation and United Way of Genesee County. Our letter will enable the community foundation to release funds for water filters with the assurance that we will be making a $250,000 grant later this year.
>
> Paul

From: Muchmore, Dennis (GOV)
Sent: Wednesday, October 07, 2015 11:48 AM
To: 'Utley, Corey (GOV)'; Posthumus, Dick (GOV); Hollins, Harvey (GOV); Baird, Richard (GOV)
Cc: Agen, Jarrod (GOV); Heaton, Anna (GOV)
Subject: RE: Flint Press Conference

I think the Drain Commissioner, Ananich, Neely, Phelps, and the two ministers who were leading the effort, Pastors Overton and Harris?

From: Utley, Corey (GOV)
Sent: Wednesday, October 7, 2015 10:08 AM
To: Posthumus, Dick (GOV) <Posthumusd@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>
Cc: Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Heaton, Anna (GOV) <HeatonA@michigan.gov>
Subject: Flint Press Conference

Hi All:

Anna and I are working on an invite list for the press conference in Flint tomorrow. The venue we've selected will hold approximately 20 guests (not including speakers).

Dick: Do we need to invite any legislators and, if so, who? If you provide names, I can work with Laurie to reach out. We want to make clear that if they are invited as guests, not speaking participants.

Dennis, Rich, Harvey: Aside from legislators, are there other folks that have to be invited? Again, keeping in mind the limited space capacity.

We'd like to get the list compiled by 2 PM, then reach out later today.

Thank you!
Corey

From: Duncan, Nancy (DTMB)
Sent: Wednesday, October 07, 2015 12:14 PM
To: Wyant, Dan (DEQ); Khouri, Nick (TREASURY); Saxton, Thomas (Treasury); Becker, Timothy (DHHS); Lyon, Nick (DHHS); Zimmer, Mike (LARA); Muchmore, Dennis (GOV)
Cc: Pohl, Allan (LARA); Hanley, Farah (DHHS); McNeely, Jacques (DTMB); Harkins, Chris (DTMB); Fosdick, David (DTMB); Kimmith, Dean (DTMB); Shoemaker, Lisa (DTMB); Harrison, Jennifer (DTMB); Roberts, John (DTMB); Starr, Scott (DTMB); Peruchietti, Cindy (Treasury); Epkey, Amy (DEQ)
Subject: DRAFT City of Flint Solution
Attachments: City of Flint Water Funding Solution.pdf

Importance: High

Colleagues,

Please find attached summary of where the State Budget Office believes we are based on this morning's meeting hosted by Director Wyant. This reflects the State commitment of resources towards provision of filters, reconnecting to Detroit Water & Sewage, and home/school/other inspections. Your quick review would be appreciated, since the Governor wants to share with legislative leaders yet today. I have included your budget officers to assist in the review.

Open issues are: (1) where to place the appropriation for the Flint re-connect and (2) whether (and what) boilerplate we may need/want.

Thanks.

Nancy Duncan
Deputy State Budget Director
517-373-0870

City of Flint Water - Funding Solution
State of Michigan Commitment

Agency	GF/GP	Gross	Comments
Filters:			
MSHDA		$225,000	Does not require board approval.
Health & Human Services	$1,016,000	$1,016,000	Towards 2nd round of filters. (AY15 work project)
Health & Human Services	$0	$1,000,000	Environmental Quality - State Restricted Settlement Funds provided to HHS Emergency Services local office for 1st round of filters.
Subtotal Filters:	**$1,016,000**	**$2,241,000**	
Reconnect to DSW:			
Environmental Quality	$0	$1,000,000	State Restricted Settlement Fund support.
Health & Human Services	$0	$0	
MI Strategic Fund	$0	TBD	
State Budget Office	$5,000,000	$5,000,000	FY15 general fund lapse resources.
Subtotal Reconnect:	**$5,000,000**	**$6,000,000**	
Additional Agency Support:			
LARA	TBD	TBD	Provision of 5-7 plumbing inspectors to do schools (public and parochial) and health facilities (hospitals, Long Term Care, etc.).
Health & Human Services	TBD	TBD	Provision for home and school inspections. Cost will be absorbed within existing resources.
Environmental Quality	TBD	TBD	Provision of 2 FTEs for home and school inspections. Cost will be absorbed within existing resources.
Subtotal Additional Support:	**$0**	**$0**	
ALL TOTAL	**$6,016,000**	**$8,241,000**	

From: Pohl, Allan (LARA)
Sent: Wednesday, October 07, 2015 12:58 PM
To: Duncan, Nancy (DTMB)
Cc: Wyant, Dan (DEQ); Khouri, Nick (TREASURY); Saxton, Thomas (Treasury); Becker, Timothy (DHHS); Lyon, Nick (DHHS); Zimmer, Mike (LARA); Muchmore, Dennis (GOV); Hanley, Farah (DHHS); McNeely, Jacques (DTMB); Harkins, Chris (DTMB); Fosdick, David (DTMB); Kimmith, Dean (DTMB); Shoemaker, Lisa (DTMB); Harrison, Jennifer (DTMB); Roberts, John (DTMB); Starr, Scott (DTMB); Peruchietti, Cindy (Treasury); Epkey, Amy (DEQ)
Subject: Re: DRAFT City of Flint Solution

Hi Nancy, I discussed with Lisa earlier this morning that we are asking for $200,000 Gross in a contingency fund transfer with Construction Code found revenue as the source.

Thanks

Sent from my iPad

On Oct 7, 2015, at 12:14 PM, Duncan, Nancy (DTMB) <duncann1@michigan.gov> wrote:

> Colleagues,
>
> Please find attached summary of where the State Budget Office believes we are based on this morning's meeting hosted by Director Wyant. This reflects the State commitment of resources towards provision of filters, reconnecting to Detroit Water & Sewage, and home/school/other inspections. Your quick review would be appreciated, since the Governor wants to share with legislative leaders yet today. I have included your budget officers to assist in the review.
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> Open issues are: (1) where to place the appropriation for the Flint re-connect and (2) whether (and what) boilerplate we may need/want.
>
> Thanks.
>
> Nancy Duncan
> Deputy State Budget Director
> 517-373-0870
>
> <City of Flint Water Funding Solution.pdf>

From: Muchmore, Dennis (GOV)
Sent: Tuesday, August 11, 2015 3:07 PM
To: Paul Hillegonds
Subject: Re: Changes coming...

The Flint thing is ugly and could get worse before it gets better

Sent from my iPhone

On Aug 11, 2015, at 2:39 PM, Paul Hillegonds <[PPI] wrote:

> Oh the things you get me into. But regional transit may be (slightly) easier than the Flint water system.
>
> Sent from my iPad
>
> On Aug 11, 2015, at 2:09 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:
>
> > Thanks Paul, it can be a grind and how exciting at the same time...best job I've ever had. Sorry, what is regional transit?
> >
> > **From:** Paul Hillegonds [mailto:P[PPI]
> > **Sent:** Tuesday, August 11, 2015 1:12 PM
> > **To:** Muchmore, Dennis (GOV) <muchmored@michigan.gov>
> > **Subject:** Re: Changes coming...
> >
> > Dennis,
> >
> > The feeling is mutual. Thank you for your friendship, and thank you for all you've done to keep our state government on a steady, sane--not crazy--course. I'm happy to hear you'll still be helping the Governor on special projects. Can one of the projects be regional transit in Southeast Michigan? :)
> >
> > Talk to you soon. Your fellow Communist,
> >
> > Paul
> >
> > Sent from my iPad
> >
> > On Aug 11, 2015, at 10:53 AM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:
> >
> > > I consider the relationship we have to be a valued friendship. You have been very supportive of a ideas and actions over the years, and I wanted to make sure you are aware of some changes in my
> > >
> > > One of the most important actions to be implemented in any office is a succession plan. Today w announcing that the Governor, with my full support, has put into effect a succession plan to impl

changing of the guard in the Executive Office. I will retire from my role as Chief of Staff effecti
2016 and transition to oversee special projects for Governor Snyder.

I have loved the job and have had the opportunity to participate in the Reinvention of Michigan a
This participation has met every objective a person who has spent his career in and around state
could anticipate. Government, and especially state government, is an institution that I honor and
the pride with which I associate being a state government employee is second to none.

I have served as Chief of Staff since November of 2010, and was able to participate in the Transi
actions and since Governor Snyder's inaugural able to assist in his vision and the plan set in plac
Brian Calley took office in January 2011. I will continue to play a vital role in the reinvention of
supporting current Director of Communications, Jarrod Agen in his transition into the role of Ch
Beth Clement will be named the first Cabinet Secretary for Governor Snyder in addition to her r
Chief of Staff. Wendy Wisniewski, who as you all know actually runs the place, will continue in
role.

From: Muchmore, Dennis (GOV)
Sent: Friday, September 04, 2015 9:13 AM
To: Saxton, Thomas (Treasury)
Subject: RE: Flint Water

No, makes no sense to do so at all. We just need to get to the new connection…just can't wait to put this one behind me.

From: Saxton, Thomas (Treasury)
Sent: Thursday, September 3, 2015 5:36 PM
To: Redford, James (GOV) <RedfordJ@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Cc: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Subject: FW: Flint Water

Gentlemen… in the attached (which you have likely seen before) is a description of the cost to reconnect to DWSD. I assume/hope no one is still seriously considering that option but if you need anything more give us a call.

From: Muchmore, Dennis (GOV)
Sent: Monday, January 19, 2015 10:13 AM
To: Saxton, Tom (SaxtonT@michigan.gov); Walsh, John (GOV); Hollins, Harvey (GOV)
Subject: FW: Flint Water
Attachments: Mayor Governor Letter Flint Water Jan 18 2015.PDF

Now what?

From: Dayne Walling [mailto:dwalling@cityofflint.com]
Sent: Sunday, January 18, 2015 4:16 PM
To: GovernorsOffice; Snyder, Rick (GOV)
Cc: Joshua Freeman; senjananich@senate.mi.gov; Hollins, Harvey (GOV); Muchmore, Dennis (GOV); Gerald Ambrose
Subject: Flint Water

Dear Governor,

There is nothing more important in Flint right now than fixing the water problems. Attached is a letter outlining a plan with my request for your support. I urge you to work with all of us in the Flint community to implement solutions.

Sincerely,

Mayor Walling

--
Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
810-766-7346
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

CITY OF FLINT

Dayne Walling
Mayor

January 18, 2015

The Honorable Rick Snyder
Governor, State of Michigan
P.O. Box 30013
Lansing, MI 48909

RE: Flint Water Improvement Plan

Dear Governor Snyder:

On behalf of the Flint community, I am writing to convey serious concerns about water quality and to request your support for my proposed Flint Water Improvement Plan. Access to safe and clean water is a basic human right, and, therefore, policy and budget decisions need to ensure that water is affordable and secure for everyone in Flint and all across Michigan It is essential there is City, State and Federal cooperation to address the challenges here and to meet the needs of vulnerable populations.

The Flint Water Improvement Plan is focused in five areas: safety, quality, access, investment and education. The plan puts safety and quality first because this is fundamental. It is designed to be a sustainable solution for the City of Flint and the community as we move towards a new permanent water supply from Lake Huron through the Karegnondi Water Authority. My plan offers new ideas and also builds on successful models of utility, energy and assistance programs at the State and Federal levels.

Safety & Quality

- 100% Safety is the standard
- City of Flint reports testing data to the public to assure safety and expands testing sites and frequency
- Bring on experienced river water treatment operational management in the City of Flint

Access

- Announce an amnesty program for Flint water service turn-ons and reduce the turn-on fee
- Develop a revised affordable payment plan policy to encourage customers to return
- Design Federal and State partnership to establish new Drinking Water Emergency Assistance Fund for the elderly and vulnerable families

Investment

- Accelerate water system improvements outlined in the City of Flint Capital Improvement Plan through Federal and State investments
    - State approves City of Flint's Distressed Cities Fund applications

- Federal and State support for replacement or forgiveness of payment to the Drinking Water Revolving Loan Fund due to Flint's status as a distressed community
- Federal and State grants for infrastructure improvements in alignment with the Flint Master Plan

* City Water Department implements budgeted FY15 projects including leak detection, valve repairs, new pipes and meter replacements

Education

* Develop a community partnership with universities to provide household and business customers with information on testing and conservation
* Ongoing partnership with Michigan Department of Human Services, United Way, Salvation Army and community organizations to provide information and water assistance with the Keep the Water Flowing Fund and support services
* Expand youth energy initiative to assist households with conservation and efficiency (piloted in summer 2014 with Northwestern High School students, EcoWorks and Consumers Energy)

It is also critical to restore the public confidence in Flint Water. The implementation of this plan must be accompanied by extensive community engagement including local elected officials. My objective is to work with you and your appointed officials, State Senator Ananich, State Representatives Phelps and Neeley, Congressman Kildee, community groups, businesses, churches, foundations, the Flint City Council, and all of the City of Flint and government personnel.

It is imperative that we communicate better and provide residents more information. I understand representatives from the Michigan Department of Environmental Quality will be joining a public forum this week at City Hall. This engagement going forward is vital so thank you for supporting their efforts. I think this issue of transparency is important for communities all across the State. I recommend a review of the applicable laws and policies and, at a minimum, a new requirement that water testing data be reported publicly no less than quarterly by law in all Michigan communities in Flint's population category.

Thank you for the consideration Governor. There is nothing more important in Flint right now than fixing the water problems. We must work together to identify funds to repair and update the water treatment facilities and city-wide infrastructure and to help those persons without access to clean water so that the entire Flint community has sustainable, safe, secure and affordable water now and into the future. This is an important issue for the state of our State of Michigan and I urge you to work with us to implement solutions.

Sincerely,

Dayne Walling, Mayor
City of Flint

CC: Flint City Council President Joshua Freeman; Congressman Dan Kildee; State Senator Jim Ananich; State Representative Sheldon Neeley; State Representative Phil Phelps; Flint Emergency Manager Jerry Ambrose

From: Muchmore, Dennis (GOV)
Sent: Friday, January 23, 2015 6:09 PM
To: Saxton, Thomas (Treasury)
Subject: Fwd: "Anonymous" threatening to do operation in Flint

Better warn Jerry

Sent from my iPhone

Begin forwarded message:

> **From:** "Adler, Ari (GOV)" <AdlerA@michigan.gov>
> **Date:** January 23, 2015 at 3:39:28 PM CST
> **To:** "Agen, Jarrod (GOV)" <AgenJ@michigan.gov>, "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>, "Clement, Elizabeth (GOV)" <clemente@michigan.gov>, "Walsh, John (GOV)" <WalshJ@michigan.gov>
> **Subject: "Anonymous" threatening to do operation in Flint**
>
> We need to make sure things are buttoned up in Flint as it relates to the water treatment operations, apparently.
>
> Via Twitter just now:
>
> **AnonCorpWatch** 4:28pm via Twitter Web Client
> #anonymous is not dead!
>
> #OpFlint
>
> @oneloughnerd #ExpectUs

About

Corporations have been getting way with far too much for far too long. It is time that we, the citizens of the world, educate ourselves and take action against these Corporations. We all understand that for past few generations, we have allowed laws to be written, tax incentives to be created and have allowed loop holes to be made in environmental policy. We have allowed lobbiests in Washington , and other governments around the world, to make this capitalist institution called the "Corporation" get away with practices that are unacceptable. We have not understood the consequences until it is too late. We have felt too overwhelmed by the do's and don'ts that we have felt we had to respect, that we have allowed these powerhouses to benefit from massive profits, while we the majority are struggling.

It is time that we the people take matters into our own hands. It is time to take responsibility for our ignorance. We must forgive ourselves for allowing this economic "Grand Canyon" between the mega wealthy and the other 90% of us. We hear our leaders ask us to make further sacrifices by accepting higher interest rates in order to pay for the mess they got us into. They have repeatedly tried to take away our voice. It is time forgive us our sins and move forward. We will no longer allow these Corporations and Government puppets to silence us.

Like others before us, we are taking matters into our own hands. We are going to start keeping tabs on these Corporations. We are going to collect information and share it. We are going to spread the truth as far as we can. Most importantly we are going to take action!

Be a voice in a voiceless world. Share your knowledge of what you know with us so that we can unite and learn from each other, and become a source of power and change.

Hey Corporations! We are watching you!

We are Anonymous

We are Legion

We never Forgive

We never Forget

Expect Us!

From: Muchmore, Dennis (GOV)
Sent: Tuesday, February 03, 2015 9:25 AM
To: Saxton, Thomas (Treasury)
Cc: Clement, Elizabeth (GOV); Stanton, Terry A. (Treasury)
Subject: Re: Flint water

Sounds like the best solution. In essence you are extending the maturity because it extends the debt repayment schedule.

On Jan 30, 2015, at 4:43 PM, Saxton, Thomas (Treasury) <SaxtonT@michigan.gov> wrote:

> We (Treasury) think we can restructure the drinking water loans the City currently has. Essentially this means deferring the upcoming April & Oct principle payts. [We can't forgive their loans nor extend the maturities].
>
> I am rounding the numbers… originally they had 4 loans totally $40+mm. The current amt outstanding is about $20mm. The cash benefit of deferring the principle payts is approx. $2.1mm.
>
> I had talked to Jerry A. re where they would use the money. One possibility would be the consultant they are looking hire. The other is to pay for that pipeline replacement he talked about.
>
> I talked to Jim Sygo @ DEQ to see if they had any issues because they are responsible for the program side. He checked with his staff. They had some concerns about opening up 'Pandora's Box' i.e., other distress communities would want to do this. But at the end of the day I think they would ok the deferral particularly if you (the Gov's office) supported it. Jim had left me a v-mail so I can get back to him Monday to really confirm.

From: Muchmore, Dennis (GOV)
Sent: Tuesday, February 03, 2015 12:39 PM
To: Saxton, Thomas (Treasury)
Cc: Clement, Elizabeth (GOV); Stanton, Terry A. (Treasury)
Subject: Re: Flint water

Got it.

Sent from my iPhone

On Feb 3, 2015, at 11:47 AM, Saxton, Thomas (Treasury) <SaxtonT@michigan.gov> wrote:

> No, we are not extending the maturity. We are simply making them pay more in a later timeframe.
>
> **From:** Muchmore, Dennis (GOV)
> **Sent:** Tuesday, February 03, 2015 9:25 AM
> **To:** Saxton, Thomas (Treasury)
> **Cc:** Clement, Elizabeth (GOV); Stanton, Terry A. (Treasury)
> **Subject:** Re: Flint water
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> > would ok the deferral particularly if you (the Gov's office) supported it. Jim had left me a v-mail so I can get back to him Monday to really confirm.

From: Muchmore, Dennis (GOV)
Sent: Wednesday, February 04, 2015 4:53 PM
To: Saxton, Thomas (Treasury)
Subject: Flint Meeting

So, just so I understand, the rates went up from the Detroit rates when they went to the Flint River? If that is true I'd be pissed also. We probably need an accounting of this water issue. Costs to date, old rate v. today's rate, any new hook charges, etc.

In a discussion about this with Rich, he recited a conversation with Daddow in which Daddow said that the $847,000 a month is a reduction from their previous rate. Daddow had no objection to a shorter term fix as it would mitigate some of the costs that were to be added to the water charges at GLWA for present customers for a year and a half which Bob seemed to think made sense.

I asked him to review with Daddow this whole thing and see if they could be rehooked for 15 months or so.

Dennis C. Muchmore
Chief of Staff
Governor Rick Snyder, Michigan
517-241-5601

STAY CONNECTED:

From: Muchmore, Dennis (GOV)
Sent: Wednesday, February 04, 2015 6:02 PM
To: Saxton, Thomas (Treasury)
Cc: Workman, Wayne (TREASURY)
Subject: RE: Flint Meeting

If we just could compare the old rates vs. the new Flint River rates it would help immensely. I think we can do something here that the ministers would like.

From: Saxton, Thomas (Treasury)
Sent: Wednesday, February 04, 2015 5:26 PM
To: Muchmore, Dennis (GOV)
Cc: Workman, Wayne (TREASURY)
Subject: RE: Flint Meeting

My plan is to talk to Jerry A. et al. I don't have that old cost & rate info for Flint in my head. At the time it was more of Andy's gig but we will get it.
I will check too as to what they (the City) think of the rfp response for that water consultant i.e., if it is actually going to add value. And don't forget about that loan restructuring; that is about another $2mm+ that could be used to replace bad lines.

From: Muchmore, Dennis (GOV)
Sent: Wednesday, February 04, 2015 4:53 PM
To: Saxton, Thomas (Treasury)
Subject: Flint Meeting

So, just so I understand, the rates went up from the Detroit rates when they went to the Flint River? If that is true I'd be pissed also. We probably need an accounting of this water issue. Costs to date, old rate v. today's rate, any new hook charges, etc.

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Dennis C. Muchmore
Chief of Staff
Governor Rick Snyder, Michigan
517-241-5601

STAY CONNECTED:

From: Muchmore, Dennis (GOV)
Sent: Thursday, February 05, 2015 6:11 PM
To: Workman, Wayne (TREASURY)
Cc: Saxton, Thomas (Treasury)
Subject: RE: pastor harris

Let me ask as a clarification, this is what the city would pay for the water it receives. The upcharge shouldn't be done as a profit since the city has the town all screwed up. All they should want to do is pay their costs of delivery, which from everything I hear they'll have enough trouble getting the public to do. I would think the city would be willing to straighten out this mess before they have a riot on their hands.

From: Workman, Wayne (TREASURY)
Sent: Thursday, February 05, 2015 3:38 PM
To: Muchmore, Dennis (GOV)
Cc: Saxton, Thomas (Treasury)
Subject: Re: pastor harris

This is only the fixed charge need to pay for water usage also working on getting datA

Sent from my iPhone

On Feb 5, 2015, at 2:22 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> I have talked with Rich, Daddow and the Mayor and all seem to believe that the $847K was a fair discount from the previous rates and they indicate a willingness to reconnect for 15-18 months. How does that calculate with our previous bills and payments?
>
> **From:** "Fonger, Ronald" <RFONGER1@mlive.com>
> **Date:** February 5, 2015 at 1:06:36 PM EST
> **To:** "wurfelb@michigan.gov" <wurfelb@michigan.gov>
> **Subject: pastor harris**
>
> Brad:
> I just spoke with Pastor Harris, the president of the Concerned Pastors for Social Action.
> He said the group asked that Flint be immediately re-connected to Lake Huron water during yesterday's meeting and is expecting a response of some kind by the beginning of next week.
> Would you or Dave Murray want to comment on whether that's under consideration?
> I just wanted you guys to know what he's saying – without equivocation – in the story.
> Thanks,
>
> Ron Fonger

MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Muchmore, Dennis (GOV)
Sent: Monday, February 09, 2015 11:36 AM
To: Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: A couple of things

1. I need Darnell Earley's new email and phone; 2. Do we have the numbers on the Flint project: Pre cost of DWSD cut off/Present cost for users? Cost of reconnect on Flint end?
3. Discussion with KWA contractors to get a fix on timeline for construction.

From: Muchmore, Dennis (GOV)
Sent: Wednesday, February 11, 2015 9:12 AM
To: Saxton, Thomas (Treasury); Hollins, Harvey (GOV)
Cc: Workman, Wayne (TREASURY); Stanton, Terry A. (Treasury); Clement, Elizabeth (GOV)
Subject: RE: PRESS RELEASE: Water Consultant Announcement

I need something more substantive that we can get to the community about the rates and costs today.

From: Saxton, Thomas (Treasury)
Sent: Wednesday, February 11, 2015 6:09 AM
To: Muchmore, Dennis (GOV); Hollins, Harvey (GOV)
Cc: Workman, Wayne (TREASURY); Stanton, Terry A. (Treasury); Clement, Elizabeth (GOV)
Subject: Fwd: PRESS RELEASE: Water Consultant Announcement

see the press release below re the water consultant. In the conversation Wayne & I had with Jerry late yesterday they are apparently planning a public forum mtg of some type next week to share preliminary results of the consultant's work. Veolia has already been doing some work on this.

Begin forwarded message:

> **From:** Gerald Ambrose <gambrose@cityofflint.com>
> **Date:** February 10, 2015 at 9:13:45 PM EST
> **To:** "Thomas Saxton (Treasury)" <SaxtonT@michigan.gov>, "Wayne Workman (TREASURY)" <workmanw@michigan.gov>
> **Subject: Fwd: PRESS RELEASE: Water Consultant Announcement**
>
> Just in case you did not see this. Had a roundtable with media and Veolia.
>
> ---------- Forwarded message ----------
> From: "Jason Lorenz" <jlorenz@cityofflint.com>
> Date: Feb 10, 2015 2:56 PM
> Subject: PRESS RELEASE: Water Consultant Announcement
> To:
> Cc:
>
> **For Immediate Release**

Flint Hires International Urban Water Experts of

Veolia North America to Assess City's Water Issues

Flint, Michigan – February 10, 2015 – The City of Flint has retained a team of urban water experts from Veolia North America to conduct an analysis of the city's water system. Veolia, which is the world's largest water services and technology company, will assess how Flint's water is tested and distributed, including reviewing water treatment processes and operations, laboratory testing and analysis, and engineering reports that detail the city's treatment and distribution systems.

"We understand the frustration and urgency in Flint," said David Gadis, vice president of Veolia North America's Municipal & Commercial Business. "We are honored to support your community with our technical expertise so that together we can ensure water quality for the people of the city of Flint."

Veolia anticipates its analysis to take less than two weeks, at which time they will present findings to City officials, including the Mayor, City Council and the Emergency Manager. Once the findings are presented, city officials will determine how to move forward.

"Addressing the City's water challenges are the top priority right now and it is important to bring in an independent, highly qualified team to work with us to address the safety and quality issues," said Mayor Dayne Walling.

"Until we have completed our analysis, we cannot say for certain how long it will take to provide solutions to Flint's current water situation," said Gadis. "We have extensive experience handling challenging river water sources, reducing leaks and contaminants and in managing discolored water."

"Veolia worked diligently to respond to our Request For Proposal in a thorough, professional way and demonstrated the ability to immediately support us as we ensure safe, clean water for our residents," said Emergency Manager Jerry Ambrose.

The Veolia team hit the ground running Tuesday morning, meeting with water officials to provide an overview of the work to be conducted. "We look forward to helping Flint's team find ways to address and improve the city's drinking water operation," Gadis said.

The company designs and provides water, waste and energy management solutions to communities and industries across the country, including providing water and wastewater

services to 530 communities in North America. More information is available at www.veolianorthamerica.com.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

From: Muchmore, Dennis (GOV)
Sent: Wednesday, February 11, 2015 9:13 AM
To: Saxton, Thomas (Treasury)
Cc: Hollins, Harvey (GOV); Workman, Wayne (TREASURY)
Subject: RE: Water Rate History

Whoops, thanks. I didn't realize you had already done this for me. I just found it.

From: Saxton, Thomas (Treasury)
Sent: Tuesday, February 10, 2015 8:43 PM
To: Muchmore, Dennis (GOV)
Cc: Hollins, Harvey (GOV); Workman, Wayne (TREASURY)
Subject: Fw: Water Rate History
Importance: High

I wanted to send you what we had on Flint water in follow-up to the meeting with the pastors. I know we/I had said we would have it early this week. It has been a challenge on a couple of fronts to pull the numbers together. As always in these types of situations it is assuring that the numbers are properly scrubbed & they are 'apples to apples'. Anyway that is why it is taking some time.

The attached are drafts. We have a call with Jerry tomorrow a.m. There are some 'blanks' still particularly on some some of the historical data. Just to give you a sense of the increase the current $149 monthly rate was approx $80/$110ish a few years ago. But we will confirm that with Jerry et al tomorrow a.m.

Again, the attached are drafts. I am sure they will be tweaked tomorrow after talking to Jerry. So please don't share these with anyone yet.
We will have this done tomorrow. But after looking at the drafts please let us know if this is what you had in mind. Thanks

From: Muchmore, Dennis (GOV)
Sent: Thursday, February 12, 2015 4:48 PM
To: Hollins, Harvey (GOV)
Subject: FW: Flint water
Attachments: FlintWater.pdf

Importance: High

Finally found it.

From: Wisniewski, Wendy (GOV)
Sent: Thursday, February 12, 2015 1:34 PM
To: Muchmore, Dennis (GOV)
Subject: FW: Flint water
Importance: High

From: Saxton, Thomas (Treasury)
Sent: Wednesday, February 11, 2015 12:22 PM
To: Muchmore, Dennis (GOV)
Cc: Hollins, Harvey (GOV); Wisniewski, Wendy (GOV); Workman, Wayne (TREASURY)
Subject: Flint water
Importance: High

Dennis – the attached pdf is the memo & table that hopefully addresses some of the info needs stemming from the meeting with the pastors last week. Jerry A. has looked at this document as well. In terms of key items at this point (that are mentioned in the memo)….

KWA may be hooked up by the end of this calendar year; weather permitting, etc. Even allowing for some slippage that is positive news

Whether you hooked to DWSD thru the county or directly; it is a $1mm add'l impact to the budget… an add'l 30% increase in rates over existing

They have $2mm already baked in the budget to fix that two mile 'bad' section of pipeline that might address a good portion of the current issues

They now have an outside consultant on the ground who is suppose to provide some preliminary indications next week to help improve the situation

Don't forget about the $2mm SRF loan restructuring (which we have not officially put on the table). Those $s would be available for more system improvements.

Again, sorry this took as long as it did. Let us know if this is what you had in mind or if you need anything else. Wayne – chime in if I missed anything.

See you @ 1:30

72 (Rev. 11-13)

STATE OF MICHIGAN
DEPARTMENT OF TREASURY
LANSING

RICK SNYDER
GOVERNOR

R. KEVIN CLINTON
STATE TREASURER

DATE: February 11, 2015

TO: Tom Saxton, Chief Deputy Treasurer

FROM: Wayne Workman, Deputy State Treasurer

SUBJECT: City of Flint Water Rates

Attached and below is information regarding the increase in water and sewer rates for the City of Flint since 2010.

- The data shows the significant deficit position of the water fund which was not rectified until 2013 when water rates were increased by 26%. The data also shows the lack of capital investment for a system as old as Flint.

- This condition is acknowledged in the City's recently adopted Capital Improvements Plan which identified approximately $50M in needed capital improvements over the next several years. This deficiency was also noted in the rate study commissioned by the City of Flint in 2014.

- According to the City, if Flint reconnected to DWSD for the next 18 months, the estimated monthly cost would be more than $1M per month totaling approximately $18M. This includes a fixed monthly charge of $846,700 plus the cost of actual water usage, minus the cost of operational expenditures at the Water Treatment Plant. Even with the elimination of future capital improvements, most of the additional cost would need to be funded with an additional increase to existing rates. Such an increase could approach 30%.

- The option of purchasing DWSD water from the County would be on parity with purchasing water directly from DWSD.

- The KWA previously advised the City that the connection to KWA may take place in mid-2016, but has now stated that weather conditions permitting, the connection could be made as early as December 2015.

- The $8M capital costs to upgrade the Water Treatment Plant was made to be able to treat both river water and KWA water. This upgrade has been funded with the cost reduction in operating costs achieved by not buying water from DWSD during the interim period.

- As you are aware, the City has retained Veolia as an outside water consultant to assist in maintaining the safety and improving the quality of water produced by its water system, and their initial analysis is due to be completed within the next two weeks. In addition, the City's current budget includes $2M for replacement of a 2-mile pipeline segment that is anticipated to significantly address some of the current water issues.

Average monthly bill in 2015 - note that water and sewer are not billed separately; the charges are included within the same bill regardless of water usage.

Water service charge	$22.90
Sewer service charge	$34.48
Total service charge	$57.38

Per unit rate:	
Water	$ 7.92
Sewer	$ 5.17
Total per unit	$13.09

Average family of four uses 7 units per month.
Their bill for usage would be: 7 x 13.09 = 91.63 + 57.38 service charge = $149.

If additional information is desired, please let me know.

City of Flint Water Rate History

Year (Date Effective)	Average Monthly Water/Sewer Bill*	Percentage Change in Water/Sewer Rates	Water Fund** Total Operating Revenue	Water Fund** Unrestricted Net Position	Water Fund** Capital Improvements
2010	$64	12%	$31,956,754	-$5,795,973	$2,091,160
1/15/2011	$82	29%	$36,762,663	-$12,443,265	$1,403,916
9/16/2011	$111	35%			
7/1/2012	$111	26%	$44,854,439	-$8,758,091	$755,681
2013	$140	0%	$49,903,868	$834,447	$147,462
07/01/13 to 06/30/14	$140	0%	$43,552,152	$760,745	$3,301,700
07/01/14 to 06/30/15	$149***	6%	N/A	N/A	N/A

Note* Water rate information is based on average usage of 7 units per month with a 5/8" residential remote meter.

Note** Water fund information was compiled from the City of Flint's CAFR filed with the Michigan Department of Treasury.

Note*** Billing breakdown contained in attached memo.

From: Muchmore, Dennis (GOV)
Sent: Monday, February 16, 2015 12:42 PM
To: Hollins, Harvey (GOV)
Subject: FW: Flint Water Bills
Attachments: Water Forum - Final.ppt; WATER RATES deposits.doc

This is an old note which summarizes some of the early issues with the system and why they wanted to go to the KWA. Thought you might be interested. Did we get any info for the ministers about how the Detroit bill extensions and cut offs are working?

From: Stibitz, Brom (Treasury)
Sent: Monday, March 04, 2013 4:00 PM
To: Muchmore, Dennis (GOV)
Cc: Dillon, Andy (Treasury)
Subject: Flint Water Bills

Dennis,

There is some information attached on the Flint water issue you asked us about. I summarize a few of the key points:

- The water system has been running at deficits for years. When the previous EFM left the City in 2004, the water system has a reserve of approximately $60 million. When Mike Brown was appointed, this had turned into a $20 million deficit due to years of not passing along to consumers the rate increases of over 10% hitting the system from DWSD. Slides 5 & 6 of the attached power point show this pretty dramatically.
- Substantial increases over the past few years are an attempt to reflect the actual costs of running the system.
- Another concern raised by DHS was the increase in the deposit for rental properties. This was necessary because renters paid the previous $100 deposit, then racked up water bills in excess of this amount and walked away. Of the affidavits currently out there, 82% are past due. I would also note that this is not mandatory, it is only required if a landlord is not willing to put the water bill in their name.
- The bottom line is that they realize it is an issue, but the General Fund doesn't have the money to run general City operations, much less subsidize water rates.

The two page word document (attached) provided by the EFM gives you a good overview of what is going on. They believe that a switch to KWA is part of the solution for high water rates in the City.

Brom

City of Flint

Water Forum

5/31/2012

City Of Flint Water Forum

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City Of Flint Water History Facts

Current Treatment Plant was put into service in 1954.

Current 72" main pipeline was completed in 1970.

Flint signed a 30 year contract with Detroit Water and Sewer Department in the mid 1960's.

The contract with DWSD has expired and we are currently operating on a yearly extension.

In 2006 Flint completed a $48,000,000 upgrade of the existing Water Plant (required by the MDEQ & for backup only).

Flint's Water & Sewer System is approximately a $300,000,000 Enterprise.

Flint's Water & Sewer System is designed to deliver water to over 200,000 people with over 1,500 miles of infrastructure.

Flint's most recent census count shows a population of approximately 102,000 in 2010.

Flint's census population in 2000 was approximately 124,000.

The water system had over 45,000 customers in June of 1999.

The water system had just over 36,000 customers by June 2011.

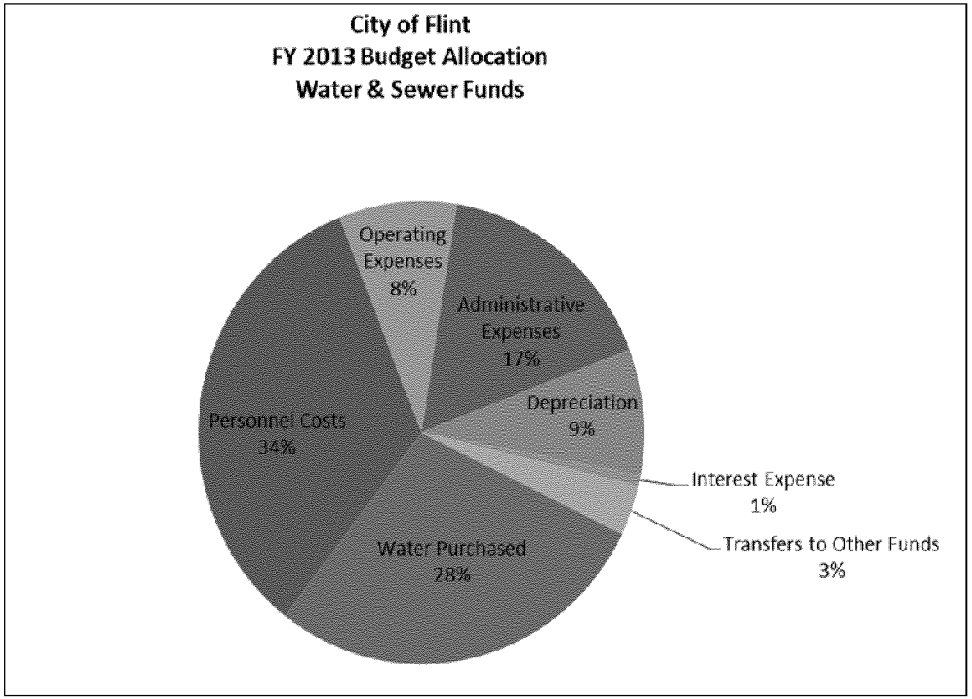
The "Fixed Costs" that must be covered to maintain the system and deliver quality water have increased over time.

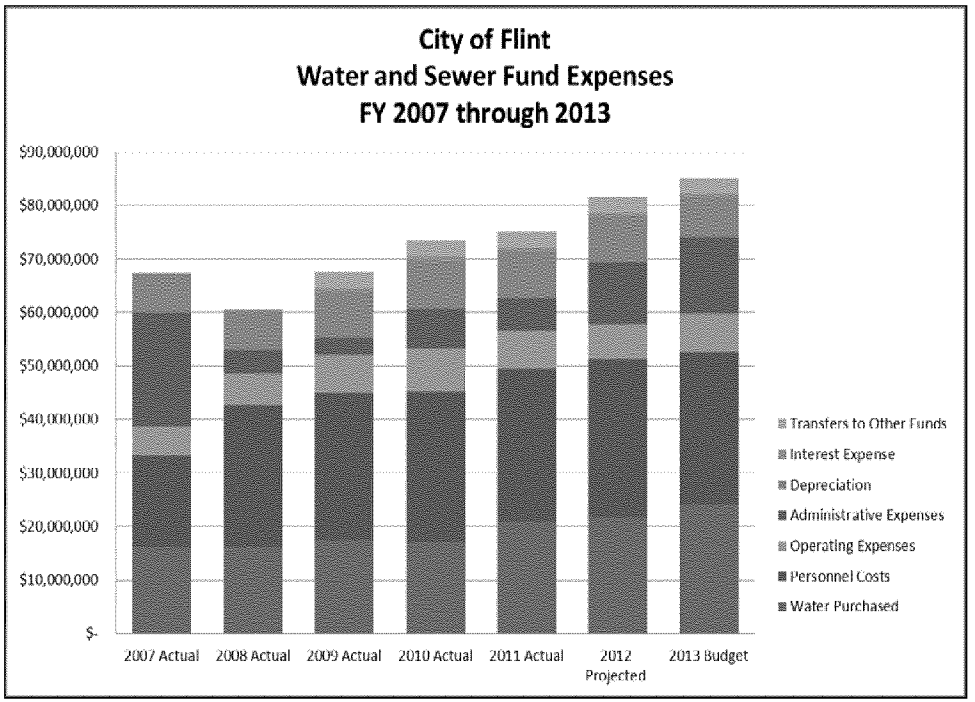
City Of Flint
Most Frequently Asked Questions about Water

- ❑ Why are the water rates so high ?
- ❑ How does my water bill work (Explanation of charges) ?
- ❑ Why do others in the area pay less for the same amount of water ?
- ❑ Where has all of the water and sewer fund money gone ?
- ❑ What do I do if I think my bill is incorrect ?
- ❑ What effect does leakage or theft have on my bill ?
- ❑ How can I report water theft ?
- ❑ Why don't we go back to using the Flint River like we once did ?

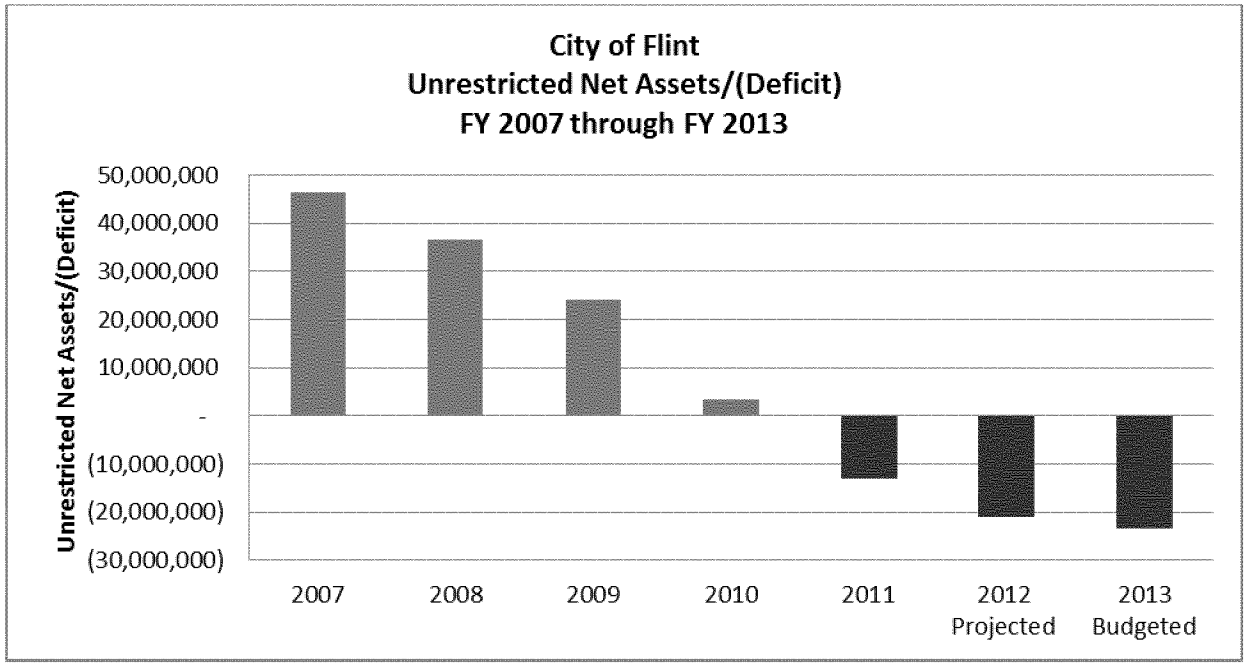
City of Flint

Budget Allocation and Fund Expenses

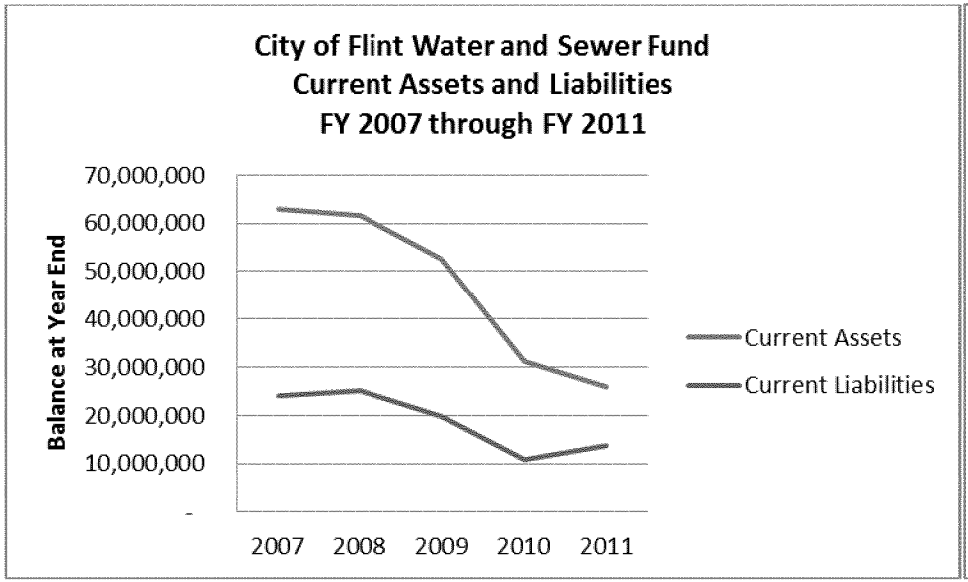


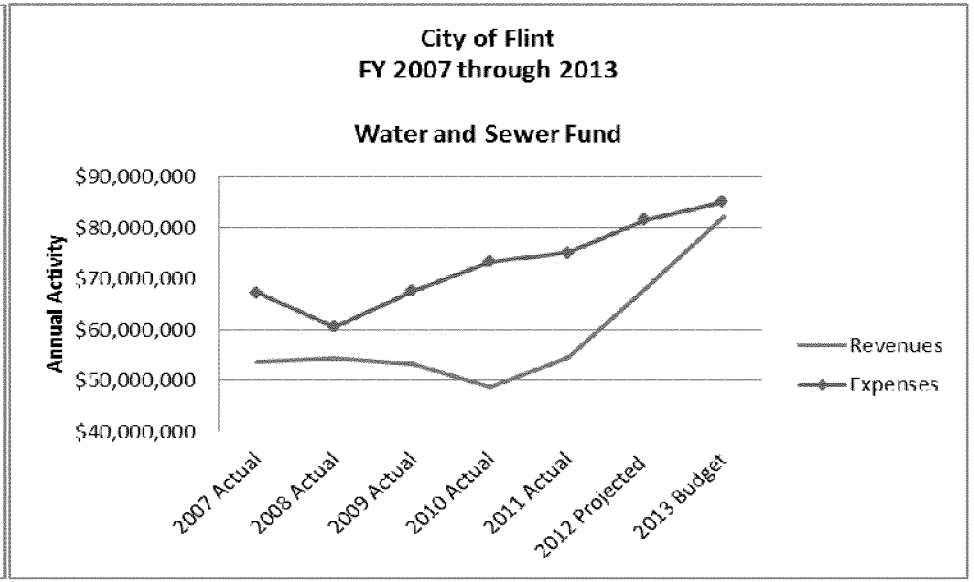


	Audited						
	2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Projected	2013 Budget
Operating Revenues	51,090,679	51,100,332	51,906,553	47,926,589	54,385,644	67,983,044	81,734,552
Other Revenues	2,627,939	3,274,450	1,442,383	764,886	68,645	126,670	455,867
Annual Revenues	53,718,618	54,374,782	53,348,936	48,691,475	54,454,289	68,109,714	82,190,419
Water Purchased	16,052,006	16,297,871	17,421,663	17,103,752	20,919,987	21,756,787	24,031,417
Personnel Costs	17,292,444	26,302,590	27,591,206	28,149,946	28,618,817	29,640,499	28,546,350
Operating Expenses	5,355,638	6,145,119	6,950,534	8,146,390	6,917,964	6,420,260	7,259,290
Administrative Expenses	21,300,900	4,229,382	3,403,231	7,327,630	6,221,627	11,465,462	14,140,047
Depreciation	7,217,142	7,132,870	8,364,022	8,854,889	8,689,809	8,615,000	7,500,000
Interest Expense	86,632	485,499	868,031	812,270	754,890	705,150	644,314
Transfers to Other Funds	-	-	2,990,000	2,990,000	2,990,000	2,990,000	2,990,000
Annual Expenses	67,304,762	60,593,331	67,588,687	73,384,877	75,113,094	81,593,158	85,111,418



	2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Projected	2013 Budget
Revenues	53,718,618	54,374,782	53,348,936	48,691,475	54,454,289	68,109,714	82,190,419
Expenses	67,304,762	60,593,331	67,588,687	73,384,877	75,113,094	81,593,158	85,111,418

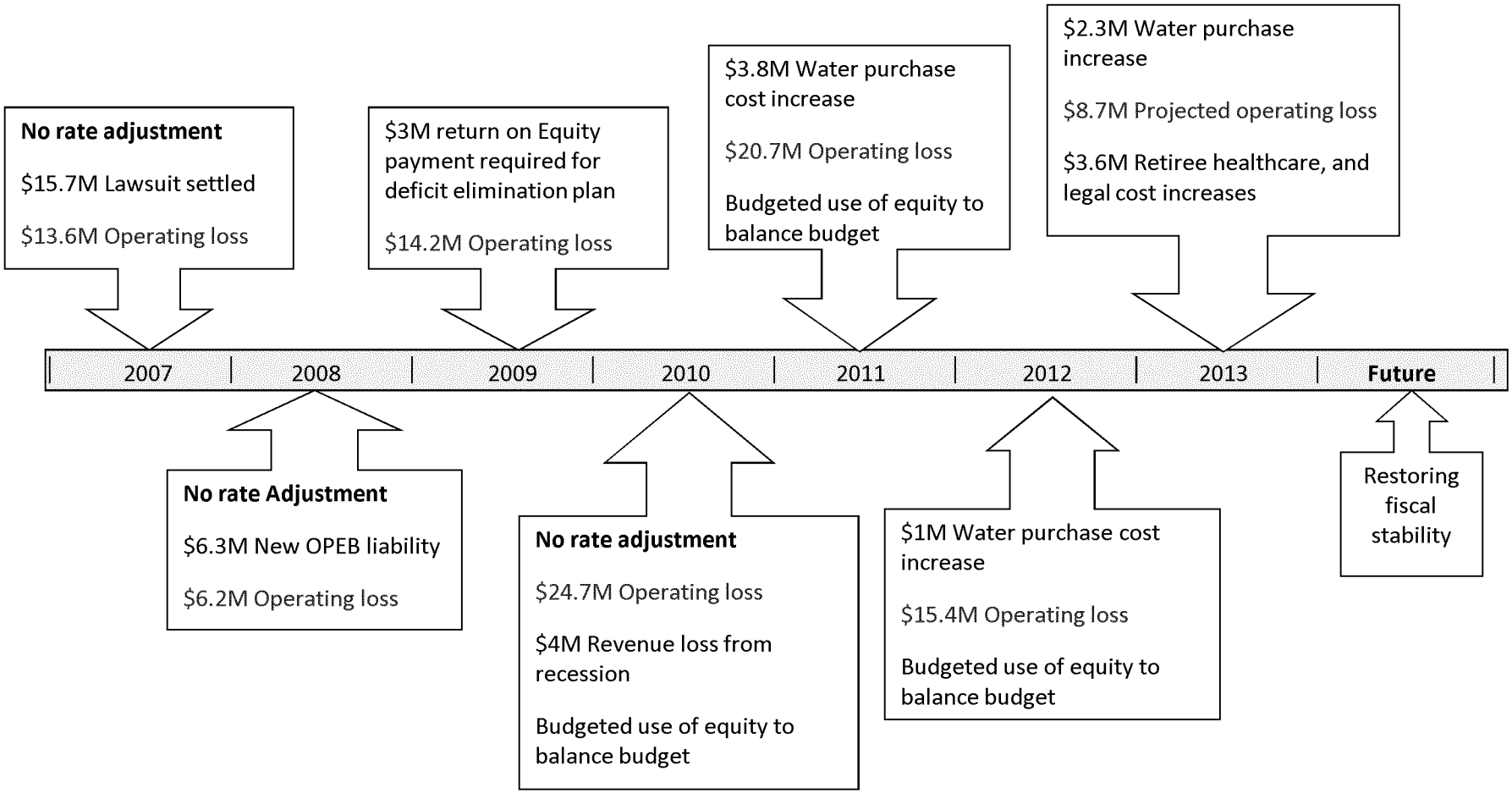




City of Flint

Recent Timeline of Water and Sewer Funds

FY 2007 through 2013



City of Flint- Water and Sewer System Additional Asset / Revenue Data

The average annual residential water sewer bill in FY2005 was less than $700 annually
The average annual residential water/ sewer bill in FY13 will be nearly $1,700

Expenses have exceeded revenues every year since 2006:

FISCAL YEAR	Rate Base	Revenues	Expenses	Revenues Minus Expenses	Unreserved System Equity	FACTORS IMPACTING SOLVENCY			COST IMPACT
2006	2005	$55,204,242	$50,933,792	**$4,270,450**	**$60,340,013**				
									(millions)
2007	2005	$53,856,857	$67,442,993	($13,586,136)	$46,399,452	No rate adjustment			??
						$15.7 million lawsuit settlement	15.7	0	$15.7
2008	2005	$54,374,781	$60,593,331	($6,218,550)	$36,482,488	No rate adjustment			??
						OPEB liabilities added	3.6	2.7	$6.3
2009	2009	$53,488,463	$67,728,218	($14,239,755)	$24,023,065	ROE payment added as part of City [	1.9	1.1	$3.0
2010	2009	$48,820,329	$73,513,725	($24,693,396)	$3,531,768	No rate adjustment			??
						Use of retained earnings budgeted	12.5	0.5	$13.0
						Revenue lost due to recession	2	2	$4.0
2011	2011	$54,527,079	$75,185,879	($20,658,800)	($12,866,607)	Use of retained earnings budgeted	7.1	3.5	$10.6
	2011					Water purchase cost increase	0	3.8	$3.8
2012		$68,279,187	$83,682,840	($15,403,653)	($20,884,122)	Use of retained earnings budgeted	5.1	0	$5.1
						Water purchase cost increase	0	0.8	$0.8
2013	2013	$82,220,420	$90,970,420	**($8,750,000)**	**($23,379,690)**	Water purchase cost increase	0	2.3	$2.3
						RHC/Legal/Admin Cost Allocation	2.1	1.5	$3.6
				($99,279,840)					$68.2

Calculation of Water and Sewer Rates for FY13 Budget

March, 2012:

	Expense Projection Based on FY12 Costs	Revenue Projection Based on FY12 Receipts	Difference Between Projected Revenues and Expenses	Rate Increase Necessary To Close Gap
Water	$49.9	$44.4	-$5.5	12.4%
Sewer	$31.0	$21.4	-$9.6	44.9%
TOTAL	$80.9	$65.8	-$15.1	22.9%

CITY of FLINT, MICHIGAN
WATER &/OR SEWER BILL

Service at: 5810 BALDWIN BLVD

TREASURER
CITY OF FLINT
P.O. BOX 1950
FLINT, MI 48501

PRESORTED
FIRST CLASS MAIL
US POSTAGE PAID
CITY OF FLINT

3419 Active

Seq=3138

ACCOUNT NUMBER	DUE DATE
BALD-005810-0000-01	02/28/2012

NET AMOUNT DUE
147.85

RETURN THIS STUB WITH YOUR PAYMENT

**AUTO [redacted]

00000376810000014785022820120000149137706

KEEP THIS PORTION FOR YOUR RECORDS

LAST READ/DATE/TYPE		NEW READ/DATE/TYPE		CONS	SERVICE	CHARGE
361	01/05/2012 A	363	02/03/2012 A	2	Sewer Non-metered	6.62
					Sewer Svc Chrg	22.07
					Water	13.36
					Water Svc Chrg	19.36

Prev. Balance	161.08
Payments	-75.00
Adjustments	0.00
Current Penalty	0.36
New Charges	61.41
Total Due	147.85
Due Date	02/28/2012

ACCOUNT: BALD-005810-0000-01 SERVICE AT: 5810 BALDWIN BLVD

PENALTY ASSESSED 30 DAYS AFTER DUE DATE

CITY OF FLINT
DEPARTMENT OF FINANCE

Customer Service Center

Dayne Walling
Mayor

Douglas Bingaman
Treasurer

CITY OF FLINT
WATER NON-PAYMENT TURN-OFF POLICY

1. Water services to any customer may be shut off if the account is not paid until after 30 days after the due date. (City ordinance 46-52 (h))

2. Non-payment turn-offs are done only Monday through Thursday. The Customer Service Center does not schedule non-payment turn-offs on Fridays, Saturdays, Sundays, or most recognized holidays.

3. Illegal usage, broken payment arrangements and NSF (non-sufficient funds) turn-offs are done at any time without additional notice.

4. Turn-off notices are mailed to delinquent customers fifteen (15) days before actual turn-off.

5. The water customer is responsible for maintenance of all plumbing in the premises including connection to City water mains or sewer lines.

6. If a customer disputes a water bill and is unable to resolve the issue with Customer Service personnel, the customer may request an administrative review. Further information on any water account may be obtained by calling (810) 766-7015 or visiting the Customer Service Center at 1st Floor, City Hall, 1101 S. Saginaw St.

Preliminary Options for Future City of Flint Water Sources

Consider a New Negotiated Contract with Detroit Water and Sewer Department

PRO'S	CON'S
No upfront capital costs	Lack of control over new / fixed changes
Possibility to negotiate a lower rate	Past practices
Ability to "Blend" water sources to further control costs	

Consider a Contract with the Karegnondi Water Authority

PRO'S	CON'S
Voting member of KWA board	Capital cost (debt service)
Ability to "Blend" water sources to further control costs	Uncertainty of final costs
Raw water is an asset for attracting new buisnesses	

Blended Use of the Flint River

PRO'S	CON'S
Helps control cost of water	

*** CURRENTLY NO DECISIONS HAVE BEEN MADE REGARDING THE FUTURE WATER SOURCE

Improvements for City of Flint Water System

Reduce Leakage

- **Finalize a Preventative Maintenance Plan**
  - (Planning started in January 2012, requires funding, … part of Operational Costs)
  - Will help identify repair area's

- **Reduce water theft**

- **Replace water meters**
  - We currently have an eighteen month plan to replace all meters with more efficient "*Smart Meters*"

- **Encourage routine household checks**
  - "Faulty" toilets are a significant reason for household water loss. and unexpected larger bills.

Other Leakage concerns

- ✓ Transmission Loss
- ✓ Fire Hydrants
- ✓ Incorrect water bills
- ✓ Non-Payment

City of Flint Water Fund

Proprietary Funds Revenues, Expenditures, and Changes in Net Assets
Fiscal Year Ended June 30

	2007	2008	2009	2010	2011	2012 Projected	2013 Budget
Current Assets	17,248,277	16,155,282	13,213,411	9,092,746	9,295,966		
Current Liabilities	7,053,131	7,039,015	6,796,178	8,287,409	11,736,286		
Capital Assets, net of accumulated depreciation	34,453,626	57,264,585	55,977,802	54,419,070	52,253,233		
Revenue Bonds, long-term portion	33,759,432	31,804,432	30,156,259	28,116,259	25,925,336		
Unrestricted Net Assets/(Deficit)	12,183,661	8,396,496	2,694,056	(5,795,973)	(12,443,265)	(13,237,665)	(12,733,233)

City of Flint Sewer Fund

Proprietary Funds Revenues, Expenditures, and Changes in Net Assets
Fiscal Year Ended June 30

	2007	2008	2009	2010	2011	2012 Projected	2013 Budget
Current Assets	45,805,754	45,515,711	39,299,954	22,199,959	16,496,427		
Current Liabilities	17,117,109	18,000,968	12,928,688	2,570,710	1,894,249		
Capital Assets, net of accumulated depreciation	76,913,051	73,794,673	74,719,675	70,200,627	65,736,675		
Revenue Bonds, long-term portion	-	-	-	-	-		
Unrestricted Net Assets/(Deficit)	34,215,792	28,085,991	21,329,011	9,327,738	(423,349)	(7,646,457)	(10,646,457)

Water and Sewer Combined

	2007	2008	2009	2010	2011	2012 Projected	2013 Budgeted
Current Assets	63,054,031	61,670,993	52,513,365	31,292,705	25,792,393		
Current Liabilities	24,170,240	25,039,983	19,724,866	10,858,119	13,630,535		

Response to Treasury regarding water rates, etc.

The cost of water and sewer in the City of Flint has become one of the most vexing issues facing the Emergency Financial Manager. When the Emergency Manager was appointed in December 2011 the water system had a $20 million deficit. In order to address this deficit the EM was forced to increase water and sewer rates by over a combined 120% in the past 18 months.

When the previous EFM left the City in 2004, the water system has a reserve of approximately $60 million. In the intervening years several things occurred: for three of five years (2007-2011) no rate increases were passed along to customers even though Detroit charged increases of over 10% per year; in the years when increases were passed along those amounts did not equal the actual cost of the system; the City chose to use the equity built up in the Water and Sewer funds until that was no longer available; a large lawsuit was settled; the City must pay for the $48 million MDEQ upgrades required at the Water Treatment Plant; and unbilled or unpaid water and sewer charges increased significantly.

In the past 18 months water and sewer rates have been increased to reflect the actual costs to operate the water and sewer system. Major leaks in the distribution system have been repaired. Unpaid water and sewer usage is now being addressed and the water affidavit process is part of this problem.

The City of Flint currently allows landlords to put the water and sewer billing in the name of the renter. This affidavit process holds the landlord harmless for any water costs. The deposit for the affidavit has been set at $100, which is the lowest in the County. The deposit fees in the County range from a low of $100 to a high of $500. The City is raising its rate to $350, which puts us about in the middle of the range. Depending on usage, this will cover 60 to 90 days' water charges and reduce the amount of uncollected billing. Keep in mind, any water not paid for is eventually charged to those who do pay through increased rates.

Because the deposit is so low in relation to the current charges, renters quickly owe more than the deposit, and find it easier to simply walk away from the rental and forfeit the deposit. This results in the City being on the hook for the unpaid bills. Currently there are 4,893 affidavits, and 4029 of them (82%) past due. This facctor alone totals to just under $3 million. In addition, when the renter walks away, the City has no way of knowing that the property is vacant. Many times the landlord rents the property again, without filing an affidavit, and the water continues to be charged to the former renter, again adding uncollected bills to the City. In the past the collection rate for past due accounts, when turned over to a collection agency, has been about 3% on average. Keep in mind that this is a deposit, not a fee, and can be refunded when the renter leaves the property. Also, the landlord can avoid the renter's deposit requirement by keeping the water and sewer billing in his name.

The City is also studying the potential to hold the landlord accountable for the water charges under certain conditions, such as failure to notify the City when a renter leaves and then renting the property again without filiing a new affidavit.

The City recognizes that the high cost of water is a factor which is causing low income residents to choose to leave the City and the increase in the deposit fee might accelerate that choice. However, many of the surrounding communities charge a higher deposit than does the City o Flint. Renters are leaving the City because they can get better housing for less money, live in safer neighborhoods with better schools, have their water charges decrease by about half, and have their insurance rates reduced by approximately 50%.

Water and sewer costs have resulted in about 8,000 current customers to be more than 60 days past due. Many are senior citizens who have lived in Flint their entire life, paid their taxes, etc. and now find themselves unable to pay their water bill. This concerns the City more than the issue of deposits. We have put in place for this year the ability for citizens to direct a part of their city tax refund to help people with their water bills, and we are reviewing other options as well as scheduled meetings with agencies involved in helping low income people with their bills.

We further recognize that we have staffing issues and water theft to address. The City is able to complete about 120 water shut-offs per week. At that rate we can not keep up with delinquent account shut-offs. The city also reconginzes that water theft through meter by-pass or unauthorized turn-on must be resolved.

Ultimately, the City must find a way to hold down future increases in the cost of water, to bring them more in line with the Genesee County water customers. To this end the City has recommended to Treasury, that the City leave the Detroit Water System and join KWA with Genesee County, Lapeer and Sanilac Counties and the City of Lapeer. We believe this is the most significant long term factor in stabilizing costs to the water customers in the City of Flint.

From: Muchmore, Dennis (GOV)
Sent: Friday, February 27, 2015 6:02 PM
To: Workman, Wayne (TREASURY); Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Storberg, Ann Marie (TREASURY)
Subject: RE: PRESS RELEASE: Recent Tests Show Flint Water within EPA Guidelines

Does it still smell?

From: Workman, Wayne (TREASURY)
Sent: Friday, February 27, 2015 5:15 PM
To: Muchmore, Dennis (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Storberg, Ann Marie (TREASURY)
Subject: Fwd: PRESS RELEASE: Recent Tests Show Flint Water within EPA Guidelines

In case you did not see this. Will be reviewing Water System info over the weekend. Maybe something Monday, Tuesday latest. I need to edit also. Wayne

Sent from my iPhone

Begin forwarded message:

> **From:** Jason Lorenz <jlorenz@cityofflint.com>
> **Date:** February 27, 2015 at 4:29:04 PM EST
> **To:** Jason Lorenz <jlorenz@cityofflint.com>
> **Subject: Re: PRESS RELEASE: Recent Tests Show Flint Water within EPA Guidelines**
>
> Attached is the release with the proper date.
>
> **For Immediate Release**
>
> ## Recent Tests Show Flint Water within EPA Guidelines
>
> ***Flint, Michigan – February 27, 2015*** – The Michigan Department of Environmental Quality (MDEQ) Testing lab has provided results to the City of Flint showing that test results for TTHM levels for the month of February are well within EPA guidelines for safe water. All eight testing sites showed levels of TTHM ranging between 14.9 and 28.5 micrograms per liter (µg/L), well below the Maximum Contamination Level of 80 (see chart below).

The testing results confirm the progress made by the City to address concerns regarding the safety of its water supply and corroborates findings by the City and independent tests by other organizations that the water today is safe. "Flint's water supply is meeting all safety guidelines set forth by the EPA," said DPW Director Howard Croft. "Today's findings by the MDEQ reinforce the progress we have made, and should help rebuild confidence in the safety of Flint's drinking water. We still have work to do to improve water quality and are committed to being vigilant to assure that water safety is maintained."

These results also show that the four month average for test results is now within EPA guidelines for five of the eight testing areas in the City. However, because EPA regulations require that the four month average for all testing sites be within guidelines, the City of Flint will still be considered to be out of compliance by MDEQ. The City expects to receive notice within the next few weeks indicating non-compliance, and system users can expect to receive official notice of non-compliance in the month of March.

Meanwhile, the City continues to work on maintaining water safety and improving water quality. While steps are being taken daily to improve quality, the City is expecting a formal set of recommendations from its water quality experts within the next few weeks.

The detail of the study results, a report of the progress being made and preliminary recommendations from Veolia will be shared with the newly formed Water Advisory Committee and Water Technical Committee, whose first meetings are scheduled for next week.

-Jason Lorenz
Public Information Officer
City of Flint
PPI
jlorenz@cityofflint.com

On Fri, Feb 27, 2015 at 4:04 PM, Jason Lorenz <jlorenz@cityofflint.com> wrote:

Recent Tests Show Flint Water within EPA Guidelines

Flint, Michigan – March 2, 2015 – The Michigan Department of Environmental Quality (MDEQ) Testing lab has provided results to the City of Flint showing that test results for TTHM levels for the month of February are well within EPA guidelines for safe water. All eight testing sites

showed levels of TTHM ranging between 14.9 and 28.5 micrograms per liter (µg/L), well below the Maximum Contamination Level of 80 (see chart attached).

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The detail of the study results, a report of the progress being made and preliminary recommendations from Veolia will be shared with the newly formed Water Advisory Committee and Water Technical Committee, whose first meetings are scheduled for next week.

See Attached. Areas in blue (under February) indicate current levels.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
PPI
jlorenz@cityofflint.com

From: Muchmore, Dennis (GOV)
Sent: Tuesday, March 03, 2015 12:01 AM
To: Kelly Rossman-McKinney
Subject: Re: Contaminated Drink Water if Flint

It's an on-going issue that has to do with the long term viability of the city's finances. I'm gone but Beth and Harvey are handling. We've got to do something for people in Flint because it's right to do more than it works financially. We've got to work on getting them water they can trust but there is no easy solution. This is a tough one, as everyone's position is correct just not easy.

Sent from my iPhone

On Mar 2, 2015, at 8:26 AM, Kelly Rossman-McKinney <krossman@truscottrossman.com> wrote:

> Please call me so we can discuss. This issue is out of hand. We do pro bono work for the city on an as-needed basis, plus we also work for Veolia, the water consultant they brought on board. I'm concerned about the implications that this may have racial overtones. Ugh.

Kelly Rossman-McKinney
CEO
Truscott Rossman • truscottrossman.com
Boji Tower • 124 W. Allegan St., Ste. 800 • Lansing, MI 48933
200 Renaissance Center, Ste. 3160 • Detroit, MI 48243
125 Ottawa Ave. N.W., Ste 235 • Grand Rapids, MI 49503

Cell: PPI
Office: (517) 487-5020
Fax: (517) 487-5080

From: Gerald Ambrose [mailto:gambrose@cityofflint.com]
Sent: Monday, March 02, 2015 7:36 AM
To: Kelly Rossman-McKinney
Subject: Fwd: Contaminated Drink Water if Flint

Welcome to Monday. Please advise asap as to any next steps you recommend, if any.

---------- Forwarded message ----------
From: "Dayne Walling" <dwalling@cityofflint.com>
Date: Mar 2, 2015 7:29 AM
Subject: Fwd: Contaminated Drink Water if Flint
To: "Gerald Ambrose" <gambrose@cityofflint.com>, "Natasha Henderson" <nhenderson@cityofflint.com>, "Peter Bade" <pbade@cityofflint.com>
Cc:

FYI:
---------- Forwarded message ----------
From: PPI
Date: Sat, Feb 28, 2015 at 2:09 PM

Subject: Contaminated Drink Water if Flint
To: "randall@udayton.edc" <randall@udayton.edc>
Cc: "mail103@foxtv.com" <mail103@foxtv.com>, WFLT 1420 Am <wflt1420am@aol.com>, Abc12news <abc12news@abc12.com>, Wnem Desk <wnem@wnem.com>, Scot Johnson Wnem <[redacted]news@wjr.com" <news@wjr.com>, "assigmentdesk@wdiv.com" <assigmentdesk@wdiv.com>, "D. Adams" [redacted]fox2newsdesk@foxtv.com, [redacted] Thorne" <bthorne@flintjournal.com> [redacted] "wxyzdesk@wxyz.com" <wxyzdesk@wxyz.com> "cspacouriernews@yahoo.com" <cspacouriernews@yahoo.com>, [redacted]promotion@wsmh.com" <promotion@wsmh.com>, Eric Mays <emays@cityofflint.com>, Emergency Manager <em@cityofflint.com>, Brenda Williams <brwilliams@visionmpinc.com>, [redacted] <jpoplar@cityofflint.com>, [redacted]Vantwaz Davis <wdavis@cityofflint.com>, "hwinford@cityofflint.com" <hwinford@cityofflint.com>, Inez Brown <ibrown@cityofflint.com>, Peter Bade <pbade@cityofflint.com>, "knelson@cityofflint.com" <knelson@cityofflint.com>, [redacted] Scott Kincaid <skincaid@cityofflint.com>, [redacted] [redacted]Dyane Walling <dwalling@cityofflint.com>, [redacted]

Good Afternoon, Attorney Randall!

Thank you for returning my call on the other day! Again, my concern as is others in the City of Flint, Michigan regarding the drinking water source for the water customers of the City of Flint. I have enclosed one of the lasted article written by the local newspaper, "The Flint Journal" regarding the Flint River water. Needless to say, the water is dangerous to our health! GM will not use the water at its Engine Plant in Flint to wash engines parts!

We need your help to guide us to the profession people that know about "Bad Drinking Water and Environmental Racism". I truly believe it's "Environmental Racism" at its worst or should I say best! As a resident of flint, Past President of the Flint Branch NAACP, newly elected VP of the Flint Branch NAACP and the most listen to broadcast host during that time on Flint's premiere gospel station, WFLT 1420AM, each Saturday morning from 9:30-10AM, I have challenged our elected officials to step up to the plate and fix this water problem!

I'll be asking the Executive Committee of the Flint Branch of the NAACP to request from our National Office if we can proceed with a possible "Environmental Racism" lawsuit with their assistance and the assistance of other civil rights groups and others to "file briefs in support of our efforts against those parties involved with the changing and the using of the Flint River as our water drinking source.

The City of Flint has Emergency Manager #4 since our "takeover", and cares less about the residents or the water concerns of its Customers of Flint! Please help us with our problem by directing us to the right professional people. Please go to www.actionpa.org/fluoride/ej.html regarding "Environmental Racism" I have attached an article from

the Flint Journal, and may Google other articles regarding the Flint's water source, including how we arrived to where we are on today.

Thank you very much in advance!!

I remain.

PPI Concerned Resident

--
Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
810-766-7346
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

<CCF02282015_0002.pdf>

From: Muchmore, Dennis (GOV)
Sent: Tuesday, March 03, 2015 7:32 AM
To: Workman, Wayne (TREASURY)
Subject: Re: Contaminated Drink Water if Flint

I'll get them for you today.

> On Mar 3, 2015, at 6:42 AM, Workman, Wayne (TREASURY) <WorkmanW@michigan.gov> wrote:
>
> I was going to call Mark Murray as a start. Do you have any water contacts at Ice Mtn etc i can call?
>
>
> Sent from my iPhone
>
>> On Mar 2, 2015, at 11:56 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:
>>
>> Might want to get Jarrod and Terry Stanton on this as well as Harvey. Otherwise it will get out of hand. It's in the city's long term interest to make the KWA work and we can make the river water safe, but we need to work with the ministers this week to help them out. It's tough for everyday people to listen to financial issues and water mumbo jumbo when all they see is problems. You can't expect the ministers to hold the tide on this problem.
>>
>> How about cutting a deal with Ice Mountain or Bill Young and buying some water for the people for a time? $250K buys a lot of drinking water and we could distribute it through the churches while we continue to make the water even safer.
>>
>> If we procrastinate much longer in doing something direct we'll have real trouble.
>>
>> Sent from my iPhone
>>
>> Begin forwarded message:
>>
>> From: Kelly Rossman-McKinney
>> <krossman@truscottrossman.com<mailto:krossman@truscottrossman.com>>
>> Date: March 2, 2015 at 8:26:34 AM EST
>> To: Dennis Muchmore
>> <muchmored@michigan.gov<mailto:muchmored@michigan.gov>>
>> Subject: FW: Contaminated Drink Water if Flint
>>
>> Please call me so we can discuss. This issue is out of hand. We do pro bono work for the city on an as-needed basis, plus we also work for Veolia, the water consultant they brought on board. I'm concerned about the implications that this may have racial overtones. Ugh.
>>
>> [https://sites.google.com/a/truscottrossman.com/oct17/home/email-logo
>> .png]
>>
>>
>> Kelly Rossman-McKinney

>> CEO
>> Truscott Rossman •
>> truscottrossman.com<http://www.truscottrossman.com/>
>> Boji Tower • 124 W. Allegan St., Ste. 800 • Lansing, MI 48933
>> 200 Renaissance Center, Ste. 3160 • Detroit, MI 48243
>> 125 Ottawa Ave. N.W., Ste 235 • Grand Rapids, MI 49503
>>
>> Cell: PPI
>> Office: (517) 487-9320
>> Fax: (517) 487-5080
>>
>>
>>
>> From: Gerald Ambrose [mailto:gambrose@cityofflint.com]
>> Sent: Monday, March 02, 2015 7:36 AM
>> To: Kelly Rossman-McKinney
>> Subject: Fwd: Contaminated Drink Water if Flint
>>
>>
>> Welcome to Monday. Please advise asap as to any next steps you recommend, if any.
>> ---------- Forwarded message ----------
>> From: "Dayne Walling"
>> <dwalling@cityofflint.com<mailto:dwalling@cityofflint.com>>
>> Date: Mar 2, 2015 7:29 AM
>> Subject: Fwd: Contaminated Drink Water if Flint
>> To: "Gerald Ambrose"
>> <gambrose@cityofflint.com<mailto:gambrose@cityofflint.com>>, "Natasha
>> Henderson"
>> <nhenderson@cityofflint.com<mailto:nhenderson@cityofflint.com>>,
>> "Peter Bade" <pbade@cityofflint.com<mailto:pbade@cityofflint.com>>
>> Cc:
>>
>> FYI:
>> ---------- Forwarded message ----------
>> From: PPI
>> Date: Sat, Feb 28, 2015 at 2:09 PM
>> Subject: Contaminated Drink Water if Flint
PPI
>> Cc: mail103@foxtv.com<mailto:mail103@foxtv.com>
>> <mail103@foxtv.com<mailto:mail103@foxtv.com>>, WFLT 1420 Am
>> <wflt1420am@aol.com<mailto:wflt1420am@aol.com>>, Abc12news
>> <abc12news@abc12.com<mailto:abc12news@abc12.com>>, Wnem Desk
>> <wnem@wnem.com<mailto:wnem@wnem.com>>, Scot Johnson Wnem
>> <scot.johnson@wnem.com<mailto:scot.johnson@wnem.com>>,
>> "news@wjr.com<mailto:news@wjr.com>"
>> <news@wjr.com<mailto:news@wjr.com>>,
>> "assigmentdesk@wdiv.com<mailto:assigmentdesk@wdiv.com>"
>> <assigmentdesk@wdiv.com<mailto:assigmentdesk@wdiv.com>>, "D. Adams"
>> <dadams5@mlive.com<mailto:dadams5@mlive.com>>,
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>> "mageorge@freepress.com<mailto:mageorge@freepress.com>"
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>> "wxyzdesk@wxyz.com<mailto:wxyzdesk@wxyz.com>"
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>> <wflt1420@aol.com<mailto:wflt1420@aol.com>>,
>> "cspacouriernews@yahoo.com<mailto:cspacouriernews@yahoo.com>"
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>> "dshepardson@depnewss.com<mailto:dshepardson@depnewss.com>"
>> <dshepardson@depnewss.com<mailto:dshepardson@depnewss.com>>,
>> "promotion@wsmh.com<mailto:promotion@wsmh.com>"
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>> <emays@cityofflint.com<mailto:emays@cityofflint.com>>, Emergency
>> Manager <em@cityofflint.com<mailto:em@cityofflint.com>>, Brenda
>> Williams
>> <brwilliams@visionmpinc.com<mailto:brwilliams@visionmpinc.com>>,

>> Vicky Van Buren
>> <vvanburen@cityofflint.com<mailto:vvanburen@cityofflint.com>>, Jackie
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>>

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>> Brown <ibrown@cityofflint.com<mailto:ibrown@cityofflint.com>>, Peter
>> Bade <pbade@cityofflint.com<mailto:pbade@cityofflint.com>>,
>> "knelson@cityofflint.com<mailto:knelson@cityofflint.com>"
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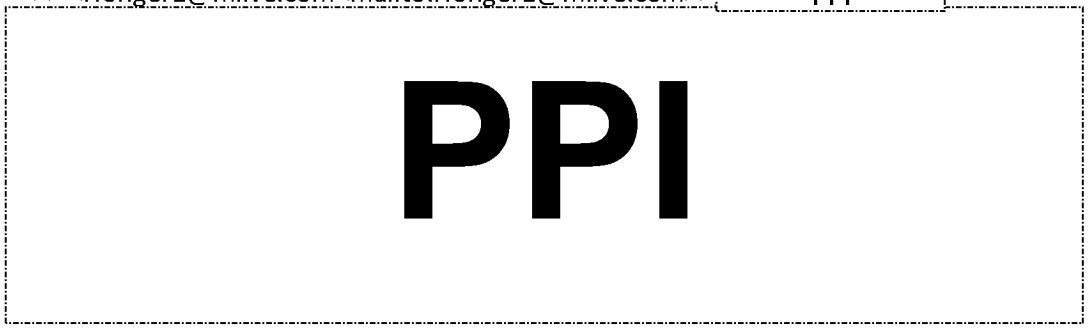
>> "rfonger1@mlive.com<mailto:rfonger1@mlive.com>"
>> <rfonger1@mlive.com<mailto:rfonger1@mlive.com>> PPI



PPI

PPI Dyane Walling >> <dwalling@cityofflint.com<mailto:dwalling@cityofflint.com>> PPI

PPI

>>
>> Good Afternoon, PPI
>>
>> Thank you for returning my call on the other day! Again, my concern as is others in the City of Flint, Michigan regarding the drinking water source for the water customers of the City of Flint. I have enclosed one of the lasted article written by the local newspaper, "The Flint Journal" regarding the Flint River water. Needless to say, the water is dangerous to our health! GM will not use the water at its Engine Plant in Flint to wash engines parts!
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>>
>> Thank you very much in advance!!
>>
>> I remain.
>>
> PPI Concerned Resident
>>
>>
>>
>> --
>> Dayne Walling
>> Mayor, City of Flint
>> City Hall, 1101 S. Saginaw St.

>> Flint, MI 48502
>> PPI
>> mayor@cityofflint.com<mailto:mayor@cityofflint.com>
>> www.cityofflint.com<http://www.cityofflint.com/>
>> follow me on twitter at http://twitter.com/mayorwalling
>> <CCF02282015_0002.pdf>

From: Muchmore, Dennis (GOV)
Sent: Tuesday, March 03, 2015 7:40 AM
To: Clement, Elizabeth (GOV); Hollins, Harvey (GOV)
Subject: Fwd: Contaminated Drink Water if Flint

I have become increasingly concerned about the situation in Flint and the lack of empathy for the residents. I'm not sure that buying water from Ice Mountain or Bill Young makes sense and I don't know about Meijer since they buy it from Bill or local sources and repackage. But, it would seem to me that buying some and giving it to residents who are having discoloration or smell issues would be fair and prudent until it gets ironed out. Maybe this doesn't make any sense to you and if not just chalk it up to the delirium I'm feeling from the sun and drop the idea.

Harvey feels the situation is slipping out of hand without some direct response and so does Kelly Rossman. She's talking to Beth today. I worry that swooping in may reinforce the idea that there is something wrong with the water after all. But, it seems to me that that would be small issue compared to blowing off these ministers and their concerns. Of course, we can't supply the water forever so maybe working with Wayne something can be figured out.

Begin forwarded message:

> **From:** "Workman, Wayne (TREASURY)" <WorkmanW@michigan.gov>
> **Date:** March 3, 2015 at 6:42:39 AM EST
> **To:** "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
> **Subject: Re: Contaminated Drink Water if Flint**
>
> I was going to call Mark Murray as a start. Do you have any water contacts at Ice Mtn etc i can call?
>
> Sent from my iPhone
>
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> >
> > How about cutting a deal with Ice Mountain or Bill Young and buying some water for the people for a time? $250K buys a lot of drinking water and we could distribute it through the churches while we continue to make the water even safer.

If we procrastinate much longer in doing something direct we'll have real trouble.

Sent from my iPhone

Begin forwarded message:

From: Kelly Rossman-McKinney
<krossman@truscottrossman.com<mailto:krossman@truscottrossman.com>>

Date: March 2, 2015 at 8:26:34 AM EST

To: Dennis Muchmore
<muchmored@michigan.gov<mailto:muchmored@michigan.gov>>

Subject: FW: Contaminated Drink Water if Flint

Please call me so we can discuss. This issue is out of hand. We do pro bono work for the city on an as-needed basis, plus we also work for Veolia, the water consultant they brought on board. I'm concerned about the implications that this may have racial overtones. Ugh.

[https://sites.google.com/a/truscottrossman.com/oct17/home/email-logo.png]

Kelly Rossman-McKinney

CEO

Truscott Rossman • truscottrossman.com<http://www.truscottrossman.com/>

Boji Tower • 124 W. Allegan St., Ste. 800 • Lansing, MI 48933

200 Renaissance Center, Ste. 3160 • Detroit, MI 48243

125 Ottawa Ave. N.W., Ste 235 • Grand Rapids, MI 49503

Cell: PPI

Office: (517) 487-9320

Fax: (517) 487-5080

From: Gerald Ambrose [mailto:gambrose@cityofflint.com]

Sent: Monday, March 02, 2015 7:36 AM

To: Kelly Rossman-McKinney

Subject: Fwd: Contaminated Drink Water if Flint

Welcome to Monday. Please advise asap as to any next steps you recommend, if any.

---------- Forwarded message ----------

From: "Dayne Walling" <dwalling@cityofflint.com<mailto:dwalling@cityofflint.com>>

Date: Mar 2, 2015 7:29 AM

Subject: Fwd: Contaminated Drink Water if Flint

To: "Gerald Ambrose" <gambrose@cityofflint.com<mailto:gambrose@cityofflint.com>>, "Natasha Henderson" <nhenderson@cityofflint.com<mailto:nhenderson@cityofflint.com>>, "Peter Bade" <pbade@cityofflint.com<mailto:pbade@cityofflint.com>>

Cc:

FYI:

---------- Forwarded message ----------

From: Arlington Dumas <ac2dumas@yahoo.com<mailto:ac2dumas@yahoo.com>>

Date: Sat, Feb 28, 2015 at 2:09 PM

Subject: Contaminated Drink Water if Flint

PPI

Cc: "mail103@foxtv.com<mailto:mail103@foxtv.com>" <mail103@foxtv.com<mailto:mail103@foxtv.com>>, WFLT 1420 Am <wflt1420am@aol.com<mailto:wflt1420am@aol.com>>, Abc12news <abc12news@abc12.com<mailto:abc12news@abc12.com>>, Wnem Desk <wnem@wnem.com<mailto:wnem@wnem.com>>, Scot Johnson Wnem <scot.johnson@wnem.com<mailto:scot.johnson@wnem.com>>, "news@wjr.com<mailto:news@wjr.com>" <news@wjr.com<mailto:news@wjr.com>>, "assigmentdesk@wdiv.com<mailto:assigmentdesk@wdiv.com>" <assigmentdesk@wdiv.com<mailto:assigmentdesk@wdiv.com>>, "D. Adams" <dadams5@mlive.com<mailto:dadams5@mlive.com>>, fox2newsdesk@foxtv.com<mailto:fox2newsdesk@foxtv.com>,

PPI

"mageorge@freepress.com<mailto:mageorge@freepress.com>" <mageorge@freepress.com<mailto:mageorge@freepress.com>>, "B. Thorne" <bthorne@flintjournal.com<mailto:bthorne@flintjournal.com>>, "Rev. Reggie

PPI

"wxyzdesk@wxyz.com<mailto:wxyzdesk@wxyz.com>" <wxyzdesk@wxyz.com<mailto:wxyzdesk@wxyz.com>>,

"wflt1420@aol.com<mailto:wflt1420@aol.com>"
<wflt1420@aol.com<mailto:wflt1420@aol.com>>,
"cspacouriernews@yahoo.com<mailto:cspacouriernews@yahoo.com>"
<cspacouriernews@yahoo.com<mailto:cspacouriernews@yahoo.com>>,
"dshepardson@depnewss.com<mailto:dshepardson@depnewss.com>"
<dshepardson@depnewss.com<mailto:dshepardson@depnewss.com>>,
"promotion@wsmh.com<mailto:promotion@wsmh.com>"
<promotion@wsmh.com<mailto:promotion@wsmh.com>>, Eric Mays
<emays@cityofflint.com<mailto:emays@cityofflint.com>>, Emergency Manager
<em@cityofflint.com<mailto:em@cityofflint.com>>, Brenda Williams
<brwilliams@visionmpinc.com<mailto:brwilliams@visionmpinc.com>>,

PPI

"Vicky" Van Buren"
<vvanburen@cityofflint.com<mailto:vvanburen@cityofflint.com>>, Jackie
Poplar <jpoplar@cityofflint.com<mailto:jpoplar@cityofflint.com>>, PPI

PPI

Wantwaz Davis <wdavis@cityofflint.com<mailto:wdavis@cityofflint.com>>,

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"hwinford@cityofflint.com<mailto:hwinford@cityofflint.com>"
<hwinford@cityofflint.com<mailto:hwinford@cityofflint.com>>, Inez Brown
<ibrown@cityofflint.com<mailto:ibrown@cityofflint.com>>, Peter Bade
<pbade@cityofflint.com<mailto:pbade@cityofflint.com>>,
"knelson@cityofflint.com<mailto:knelson@cityofflint.com>"
<knelson@cityofflint.com<mailto:knelson@cityofflint.com>>, PPI

PPI

"rfonger1@mlive.com<mailto:rfonger1@mlive.com>"
<rfonger1@mlive.com<mailto:rfonger1@mlive.com>>, PPI

PPI

PPI Dyane Walling
<dwalling@cityofflint.com<mailto:dwalling@cityofflint.com>>, PPI

PPI

PPI

Good Afternoon, Attorney Randall!

Thank you for returning my call on the other day! Again, my concern as is others in the City of Flint, Michigan regarding the drinking water source for the water customers of the City of Flint. I have enclosed one of the lasted article written by the local newspaper, "The Flint Journal" regarding the Flint River water. Needless to say, the water is dangerous to our health! GM will not use the water at its Engine Plant in Flint to wash engines parts!

We need your help to guide us to the profession people that know about "Bad Drinking Water and Environmental Racism". I truly believe it's "Environmental Racism" at its worst or should I say best! As a resident of flint, Past President of the Flint Branch NAACP, newly elected VP of the Flint Branch NAACP and the most listen to broadcast host during that time on Flint's premiere gospel station, WFLT 1420AM, each Saturday morning from 9:30-10AM, I have challenged our elected officials to step up to the plate and fix this water problem!

I'll be asking the Executive Committee of the Flint Branch of the NAACP to request from our National Office if we can proceed with a possible "Environmental Racism" lawsuit with their assistance and the assistance of other civil rights groups and others to "file briefs in support of our efforts against those parties involved with the changing and the using of the Flint River as our water drinking source.

The City of Flint has Emergency Manager #4 since our "takeover", and cares less about the residents or the water concerns of its Customers of Flint! Please help us with our problem by directing us to the right professional people. Please go to www.actionpa.org/fluroride/ej.html<http://www.actionpa.org/fluroride/ej.html> regarding "Environmental Racism" I have attached an article from the Flint Journal, and may Google other articles regarding the Flint's water source, including how we arrived to where we are on today.

Thank you very much in advance!!

I remain.

PPI Concerned Resident

--

Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502

PPI

mayor@cityofflint.com<mailto:mayor@cityofflint.com>
www.cityofflint.com<http://www.cityofflint.com/>
follow me on twitter at http://twitter.com/mayorwalling
<CCF02282015_0002.pdf>

From: Muchmore, Dennis (GOV)
Sent: Tuesday, March 03, 2015 7:46 AM
To: Workman, Wayne (TREASURY)
Subject: Re: Contaminated Drink Water if Flint

PPI probably buys and repackages from Ice Mountain or Absopure (of course it could be from a local source). I just think it is prudent to have a Plan B if it gets out of hand. Seems like that's where some of the ministers could be particularly helpful if they want to be. You, Beth and Harvey are the best thinkers we've got and closest to the situation so your judgment makes sense. Jerry Ambrose has dealt with these kinds of things a zillion times in Lansing with Rev. Stone here so he's had experience. I just don't want it to get away from us so that when it turns warmer they create a crisis.

> On Mar 3, 2015, at 6:42 AM, Workman, Wayne (TREASURY) <WorkmanW@michigan.gov> wrote:
>
> I was going to call Mark Murray as a start. Do you have any water contacts at Ice Mtn etc i can call?
>
>
> Sent from my iPhone
>
>> On Mar 2, 2015, at 11:56 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:
>>
>> Might want to get Jarrod and Terry Stanton on this as well as Harvey. Otherwise it will get out of hand. It's in the city's long term interest to make the KWA work and we can make the river water safe, but we need to work with the ministers this week to help them out. It's tough for everyday people to listen to financial issues and water mumbo jumbo when all they see is problems. You can't expect the ministers to hold the tide on this problem.
>>
>> How about cutting a deal with Ice Mountain or Bill Young and buying some water for the people for a time? $250K buys a lot of drinking water and we could distribute it through the churches while we continue to make the water even safer.
>>
>> If we procrastinate much longer in doing something direct we'll have real trouble.
>>
>> Sent from my iPhone
>>
>> Begin forwarded message:
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>> From: Kelly Rossman-McKinney
>> <krossman@truscottrossman.com<mailto:krossman@truscottrossman.com>>
>> Date: March 2, 2015 at 8:26:34 AM EST
>> To: Dennis Muchmore
>> <muchmored@michigan.gov<mailto:muchmored@michigan.gov>>
>> Subject: FW: Contaminated Drink Water if Flint
>>
>> Please call me so we can discuss. This issue is out of hand. We do pro bono work for the city on an as-needed basis, plus we also work for Veolia, the water consultant they brought on board. I'm concerned about the implications that this may have racial overtones. Ugh.
>>

>> [https://sites.google.com/a/truscottrossman.com/oct17/home/email-logo
>> .png]
>>
>>
>> Kelly Rossman-McKinney
>> CEO
>> Truscott Rossman •
>> truscottrossman.com<http://www.truscottrossman.com/>
>> Boji Tower • 124 W. Allegan St., Ste. 800 • Lansing, MI 48933
>> 200 Renaissance Center, Ste. 3160 • Detroit, MI 48243
>> 125 Ottawa Ave. N.W., Ste 235 • Grand Rapids, MI 49503
>>
>> Cell: (PPI
>> Office: (517) 487-9320
>> Fax: (517) 487-5080
>>
>>
>>
>> From: Gerald Ambrose [mailto:gambrose@cityofflint.com]
>> Sent: Monday, March 02, 2015 7:36 AM
>> To: Kelly Rossman-McKinney
>> Subject: Fwd: Contaminated Drink Water if Flint
>>
>>
>> Welcome to Monday. Please advise asap as to any next steps you recommend, if any.
>> ---------- Forwarded message ----------
>> From: "Dayne Walling"
>> <dwalling@cityofflint.com<mailto:dwalling@cityofflint.com>>
>> Date: Mar 2, 2015 7:29 AM
>> Subject: Fwd: Contaminated Drink Water if Flint
>> To: "Gerald Ambrose"
>> <gambrose@cityofflint.com<mailto:gambrose@cityofflint.com>>, "Natasha
>> Henderson"
>> <nhenderson@cityofflint.com<mailto:nhenderson@cityofflint.com>>,
>> "Peter Bade" <pbade@cityofflint.com<mailto:pbade@cityofflint.com>>
>> Cc:
>>
>> FYI:
>> ---------- Forwarded message ----------
>> From: PPI
>> Date: Sat, Feb 28, 2015 at 2:09 PM
>> Subject: Contaminated Drink Water if Flint
PPI
>> Cc: "mail103@foxtv.com<mailto:mail103@foxtv.com>"
>> <mail103@foxtv.com<mailto:mail103@foxtv.com>>, WFLT 1420 Am
>> <wflt1420am@aol.com<mailto:wflt1420am@aol.com>>, Abc12news
>> <abc12news@abc12.com<mailto:abc12news@abc12.com>>, Wnem Desk
>> <wnem@wnem.com<mailto:wnem@wnem.com>>, Scot Johnson Wnem
>> <scot.johnson@wnem.com<mailto:scot.johnson@wnem.com>>,
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>> "assigmentdesk@wdiv.com<mailto:assigmentdesk@wdiv.com>"
>> <assigmentdesk@wdiv.com<mailto:assigmentdesk@wdiv.com>>, "D. Adams"
>> <dadams5@mlive.com<mailto:dadams5@mlive.com>>,
>> fox2newsdesk@foxtv.com<mailto:fox2newsdesk@foxtv.com>,
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>> "mageorge@freepress.com<mailto:mageorge@freepress.com>"
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>> "dshepardson@depnewss.com<mailto:dshepardson@depnewss.com>"
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>> "promotion@wsmh.com<mailto:promotion@wsmh.com>"
>> <promotion@wsmh.com<mailto:promotion@wsmh.com>>, Eric Mays
>> <emays@cityofflint.com<mailto:emays@cityofflint.com>>, Emergency
>> Manager <em@cityofflint.com<mailto:em@cityofflint.com>>, Brenda
>> Williams
>> <brwilliams@visionmpinc.com<mailto:brwilliams@visionmpinc.com>>,
PPI
>> Vicky Van Buren
>> <vvanburen@cityofflint.com<mailto:vvanburen@cityofflint.com>>, Jackie
>> Poplar <jpoplar@cityofflint.com<mailto:jpoplar@cityofflint.com>>,
PPI
>> Wanitwaz Davis
>> <wdavis@cityofflint.com<mailto:wdavis@cityofflint.com>>, PPI
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>> hwinford@cityofflint.com<mailto:hwinford@cityofflint.com>
>> <hwinford@cityofflint.com<mailto:hwinford@cityofflint.com>>, Inez
>> Brown <ibrown@cityofflint.com<mailto:ibrown@cityofflint.com>>, Peter
>> Bade <pbade@cityofflint.com<mailto:pbade@cityofflint.com>>,
>> "knelson@cityofflint.com<mailto:knelson@cityofflint.com>"
>> <knelson@cityofflint.com<mailto:knelson@cityofflint.com>>, PPI
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Scott Kincaid
>> <skincaid@cityofflint.com<mailto:skincaid@cityofflint.com>>, PPI
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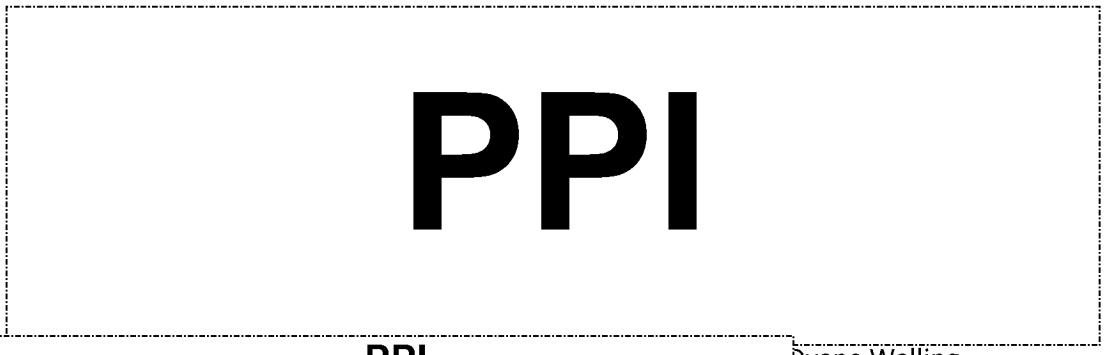
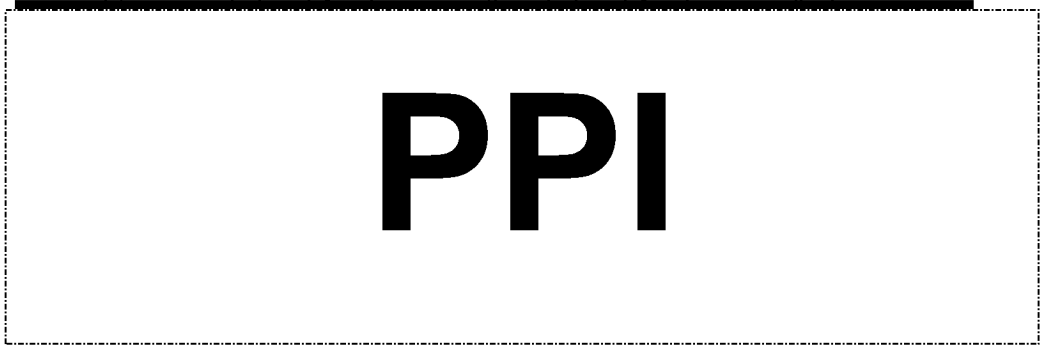
>> "rfonger1@mlive.com<mailto:rfonger1@mlive.com>"
>> <rfonger1@mlive.com<mailto:rfonger1@mlive.com>>, PPI
PPI



PPI Dyane Walling
>> <dwalling@cityofflint.com<mailto:dwalling@cityofflint.com>>, PPI



>> Good Afternoon, Attorney Randall!
>>
>> Thank you for returning my call on the other day! Again, my concern as is others in the City of Flint, Michigan regarding the drinking water source for the water customers of the City of Flint. I have enclosed one of the lasted article written by the local newspaper, "The Flint Journal" regarding the Flint River water. Needless to say, the water is dangerous to our health! GM will not use the water at its Engine Plant in Flint to wash engines parts!
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>> We need your help to guide us to the profession people that know about "Bad Drinking Water and Environmental Racism". I truly believe it's "Environmental Racism" at its worst or should I say best! As a resident of flint, Past President of the Flint Branch NAACP, newly elected VP of the Flint Branch NAACP and the most listen to broadcast host during that time on Flint's premiere gospel station, WFLT 1420AM, each Saturday morning from 9:30-10AM, I have challenged our elected officials to step up to the plate and fix this water problem!
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>>
>> The City of Flint has Emergency Manager #4 since our "takeover", and cares less about the residents or the water concerns of its Customers of Flint! Please help us with our problem by directing us to the right professional people. Please go to www.actionpa.org/fluroride/ej.html<http://www.actionpa.org/fluroride/ej.html> regarding "Environmental Racism" I have attached an article from the Flint Journal, and may Google other articles regarding the Flint's water source, including how we arrived to where we are on today.
>>
>> Thank you very much in advance!!
>>
>> I remain.
>>
>> PPI Concerned Resident
>>
>>

>>
>> --
>> Dayne Walling
>> Mayor, City of Flint
>> City Hall, 1101 S. Saginaw St.
>> Flint, MI 48502
>> PPI
>> mayor@cityofflint.com<mailto:mayor@cityofflint.com>
>> www.cityofflint.com<http://www.cityofflint.com/>
>> follow me on twitter at http://twitter.com/mayorwalling
>> <CCF02282015_0002.pdf>

From: Muchmore, Dennis (GOV)
Sent: Tuesday, March 03, 2015 7:51 AM
To: Clement, Elizabeth (GOV)
Subject: Flint

You are trying to work through a potentially difficult situation with Flint water and the local ministers demands (although I frankly tend to have sympathy with them) and you should just be talking about it with the Colonel. Might be good to anticipate what will happen when it gets warm and we have more water problems. I left you with a doozy of a situation and Harvey and Workman/Saxton are really at odds on this one.

From: Muchmore, Dennis (GOV)
Sent: Thursday, March 05, 2015 8:32 AM
To: Wurfel, Brad (DEQ)
Subject: Re: FLINT JOURNAL : posted at 1 p.m. today.

Consider the source....

On Mar 3, 2015, at 3:29 PM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:

<image001.jpg>

Flint water almost like 'gas chambers for Jews,' says Sharpton group activist

Ron Fonger | rfonger1@mlive.com By **Ron Fonger | rfonger1@mlive.com** The Flint Journal on March 03, 2015 at 12:54 PM, updated March 03, 2015 at 2:10 PM

The Rev. Charles Williams II speaks during a press conference for the National Action Network's coordinated response to the Trayvon Martin verdict in this 2013 Flint Journal file photo.Flint Journal file photo

FLINT -- The president of the Michigan chapter of Al Sharpton's National Action Network says Flint water is "almost as bad as gas chambers for Jews."

The Rev. Charles Williams II, speaking at a news conference and water giveaway in Flint on Monday, March 3, made the comment, which **appeared on television station WEYI-TV**.

The city of Flint issued a statement saying officials are "extremely disappointed" by the pastor's remarks, including his comparison of consumption of Flint's water to "genocide."

"We are extremely disappointed in Rev. Charles Williams' comments but certainly understand -- and share -- his frustration," the city statement says. "With that said, we find Rev. Williams' accusations are a gross misrepresentation of the Flint water condition and a wholly inappropriate comparison."

When contacted by The Flint Journal-MLive for comment today, Williams referred a reporter to his Twitter page.

Steven C. Low, executive director of the Flint Jewish Federation, called Williams' comments "an inappropriate invocation of the Holocaust" that "diminishes what survivors went through."

"Drawing such a comparison doesn't shed any light on the water problems," said Low, who called on Williams to apologize for his remarks.

The news conference Williams spoke at is one of several that have been held since Flint **notified customers in January** that the city is in violation of the Safe Drinking Water Act because of the level of total trihalomethanes (TTHM) in water tested during the last 10 months.

Outspoken **residents have since protested** the price, color, odor and overall quality of the water.

City officials have said Flint **water is safe for the vast majority** of the people to drink but warned in January notices that TTHM can pose increased health risks for those with a compromised immune system, the elderly, pregnant women and infants.

Testing during the **last two months has shown the city is meeting** all health and safety standards for water, and a consultant is expected to deliver a report this week, detailing recommendations for improving the quality of drinking water here.

Flint's water problems, including **multiple boil water advisories** last summer, bloomed after the city began using the Flint River as its drinking water source in April.

Prior to that switch, the city had used Lake Huron water, pre-treated and purchased from the city of Detroit.

The Flint statement says "some people may still have issues with discoloration, or do not like the taste of the (higher) mineral content river water (but) these do not amount to a safety issue."

Williams responded to a request for comment with a text message to The Journal, saying "quote my **Twitter feed**."

In a Twitter message, the pastor wrote, "I (hear) #flint city officials upset at my comparisons yesterday. They should use their anger 2 make sure resident aren't drinking death water."

In another message, Williams wrote, "Isn't it extreme to knowingly sell residents contaminated water people in #flint forced to buy liver disease water? What is that? #Genocide."

In addition to his work as president of NAN-Michigan, Williams is the pastor of King Solomon Baptist Church of Detroit.

This week was not Williams' first appearance in the spotlight in Flint.

In 2013, he demanded Hurley Medical Center officials answer charges that they granted a father's request that only white nurses care for his infant child.

The hospital eventually agreed to pay nearly $200,000 in total to three black nurses who sued the hospital after claiming they were discriminated against when they weren't allowed to treat that white baby.

NAN describes itself as one of the leading civil rights organizations in the nation with chapters throughout the United States. The organization was founded in 1991 by Sharpton.

*Ron Fonger is a reporter for The Flint Journal. Contact him at rfonger1@mlive.com or 810-247-9963. Follow him on **Twitter**, **Facebook** or **Google+**.*

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Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713

PPI ell

From: Muchmore, Dennis (GOV)
Sent: Saturday, March 07, 2015 8:19 AM
To: Baird, Richard (GOV); Clement, Elizabeth (GOV)
Subject: Re: Flint Water Meeting

What does Steve have to do with the Flint water situation? Am I hopelessly out of the loop on this?

On Mar 6, 2015, at 2:11 PM, Clayton, Stacie (GOV) <claytons3@michigan.gov> wrote:

> Just an FYI – the meeting Rich asked Harvey to arrange will be on Monday at 1pm in Lansing. Please see below. -- Stacie
>
> **From:** Clayton, Stacie (GOV)
> **Sent:** Friday, March 06, 2015 2:05 PM
> **To:** Hollins, Harvey (GOV); 'Gerald Ambrose'; 'Maxine Murray'; Thelen, Mary Beth (DEQ); Wurfel, Brad (DEQ); Devereaux, Tracy Jo (DEQ); Busch, Stephen (DEQ); 'Natasha Henderson'; Shekter Smith, Liane (DEQ)
> **Subject:** Flint Water Meeting
>
> Greetings All,
>
> Attached is a brief overview of the information to be presented on Monday at the 1:00pm meeting with Steve Linder of the Sterling Corporation regarding Flint Water. The meeting will be held at the Sterling Corporation's offices on 106 W. Allegan, Ste. 2 in Lansing. I have sent the appointment and here are the list of attendees:
>
> Harvey Hollins, Director, Governor's Office of Urban and Metropolitan Initiatives
> Gerald Ambrose, Flint Emergency Manager
> Natasha Henderson, Flint, City Manager
> Liane Shekter Smith, Chief, Office of Drinking Water and Municipal Assistance (DEQ)
> Stephen Busch, Office of Drinking Water and Municipal Assistance (DEQ)
> Brad Wurfel, Director of Communications (DEQ)
>
> <SomnioGlobal_Ozone disinfection technology.pdf>

From: Muchmore, Dennis (GOV)
Sent: Saturday, March 07, 2015 8:48 AM
To: Baird, Richard (GOV)
Cc: Clement, Elizabeth (GOV)
Subject: Re: Flint Water Meeting

Got it, I remember he called some time ago about this now that you've jarred my memory (it needs jarring to work). Thanks for the response.

On Mar 7, 2015, at 8:44 AM, Baird, Richard (GOV) <bairdr@michigan.gov> wrote:

> Left you a voicemail. He represents a company that received medc grant and we think they may have a role to play in flint water problem. Company founders meeting with Harvey, Ambrose and somebody from Flint water department since they were going to be in Lansing on Monday anyway.
>
> *Sent from my Verizon Wireless 4G LTE DROID*
> On Mar 7, 2015 8:19 AM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:
> What does Steve have to do with the Flint water situation? Am I hopelessly out of the loop on this?
>
> On Mar 6, 2015, at 2:11 PM, Clayton, Stacie (GOV) <claytons3@michigan.gov> wrote:
>
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> >
> > ---
> >
> > **From:** Clayton, Stacie (GOV)
> > **Sent:** Friday, March 06, 2015 2:05 PM
> > **To:** Hollins, Harvey (GOV); 'Gerald Ambrose'; 'Maxine Murray'; Thelen, Mary Beth (DEQ); Wurfel, Brad (DEQ); Devereaux, Tracy Jo (DEQ); Busch, Stephen (DEQ); 'Natasha Henderson'; Shekter Smith, Liane (DEQ)
> > **Subject:** Flint Water Meeting
> >
> > Greetings All,
> >
> > Attached is a brief overview of the information to be presented on Monday at the 1:00pm meeting with Steve Linder of the Sterling Corporation regarding Flint Water. The meeting will be held at the Sterling Corporation's offices on 106 W. Allegan, Ste. 2 in Lansing. I have sent the appointment and here are the list of attendees:
> >
> > Harvey Hollins, Director, Governor's Office of Urban and Metropolitan Initiatives
> > Gerald Ambrose, Flint Emergency Manager
> > Natasha Henderson, Flint, City Manager
> > Liane Shekter Smith, Chief, Office of Drinking Water and Municipal Assistance (DEQ)
> > Stephen Busch, Office of Drinking Water and Municipal Assistance (DEQ)

Brad Wurfel, Director of Communications (DEQ)

<SomnioGlobal_Ozone disinfection technology.pdf>

From: Muchmore, Dennis (GOV)
Sent: Thursday, March 19, 2015 5:28 PM
To: Workman, Wayne (TREASURY); Clement, Elizabeth (GOV); Hollins, Harvey (GOV)
Cc: Saxton, Thomas (Treasury)
Subject: RE: We made the tight choice to leave...and not go back!

I never disagreed with that, I'm just worried about the interim.

From: Workman, Wayne (TREASURY)
Sent: Wednesday, March 18, 2015 7:57 AM
To: Muchmore, Dennis (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV)
Cc: Saxton, Thomas (Treasury)
Subject: FW: We made the tight choice to leave...and not go back!

FYI

From: Jerry Ambrose [mailto:gambrose49@gmail.com]
Sent: Wednesday, March 18, 2015 7:15 AM
To: Workman, Wayne (TREASURY)
Subject: We made the tight choice to leave...and not go back!

Genesee County water rates could go up 16 percent following Detroit increase

GENESEE COUNTY, MI -- People in communities that get water from Detroit could see their costs climb as much as 16 percent as soon as this summer, said Genesee County Drain Commissioner Jeff Wright. The Detroit Water and Sewerage Department board last week appro Read More
http://www.mlive.com/news/flint/index.ssf/2015/03/genesee_county_water_rates_cou.html

From: Muchmore, Dennis (GOV)
Sent: Wednesday, April 08, 2015 11:51 AM
To: Workman, Wayne (TREASURY); Clement, Elizabeth (GOV)
Cc: Saxton, Thomas (Treasury)
Subject: RE: Fyi..I had hoped we would be announcing our action plan this week ,ie going forth with the GAC. Will see what we can do to get a release out...

So much for putting Harris on the RTAB.

From: Workman, Wayne (TREASURY)
Sent: Wednesday, April 08, 2015 11:46 AM
To: Muchmore, Dennis (GOV); Clement, Elizabeth (GOV)
Cc: Saxton, Thomas (Treasury)
Subject: Fwd: Fyi..I had hoped we would be announcing our action plan this week ,ie going forth with the GAC. Will see what we can do to get a release out...

Assume you saw this.

Sent from my iPhone

Begin forwarded message:

> **From:** Gerald Ambrose <gambrose@cityofflint.com>
> **Date:** April 7, 2015 at 8:27:36 PM EDT
> **To:** "Wayne Workman (TREASURY)" <workmanw@michigan.gov>, Edward Koryzno <koryznoE@michigan.gov>, Randy Burn <ByrneR1@michigan.gov>
> **Subject: Fyi..I had hoped we would be announcing our action plan this week ,ie going forth with the GAC. Will see what we can do to get a release out...**
>
> **Flint pastors plan news conference on 'lack of progress' on Flint water issues**
>
> FLINT, MI -- Concerned Pastors for Social Action plan to speak out on a "lack of progress" on Flint water issues Wednesday, April 8. The Rev. Alfred Harris, president of the Concerned Pastors, said his group will detail its concerns at the 1:30 p.m. news conference at City Hal Read More http://www.mlive.com/news/flint/index.ssf/2015/04/flint_pastors_plan_news_confer.html

From: Muchmore, Dennis (GOV)
Sent: Wednesday, April 08, 2015 11:52 AM
To: Hollins, Harvey (GOV)
Subject: FW: Fyi

Well, that didn't help at all. So much for Harris on the RTAB.

From: Workman, Wayne (TREASURY)
Sent: Wednesday, April 08, 2015 11:46 AM
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> http://www.mlive.com/news/flint/index.ssf/2015/04/flint_pastors_plan_news_confer.html

From: Muchmore, Dennis (GOV)
Sent: Wednesday, April 08, 2015 12:01 PM
To: Hollins, Harvey (GOV)
Subject: RE: Fyi

Hard to help people when we're trying to balance everyone's latest complaint on either side.

From: Hollins, Harvey (GOV)
Sent: Wednesday, April 08, 2015 11:58 AM
To: Muchmore, Dennis (GOV)
Subject: RE: Fyi

That's unfortunate because he is one of the most reasonable voices in Flint on this issue.

From: Muchmore, Dennis (GOV)
Sent: Wednesday, April 08, 2015 11:52 AM
To: Hollins, Harvey (GOV)
Subject: FW: Fyi

Well, that didn't help at all. So much for Harris on the RTAB.

From: Workman, Wayne (TREASURY)
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http://www.mlive.com/news/flint/index.ssf/2015/04/flint_pastors_plan_news_confer.html

From: Muchmore, Dennis (GOV)
Sent: Wednesday, April 08, 2015 4:03 PM
To: Hollins, Harvey (GOV)
Subject: FW: PRESS RELEASE: Flint Water Improvements
Attachments: Flint Water Improvements 2015.pdf

This is the latest.

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Wednesday, April 08, 2015 12:04 PM
Subject: PRESS RELEASE: Flint Water Improvements

For Immediate Release

City of Flint Announces Action Plan to Maintain Safety and Improve Quality of Flint Water

Flint, Michigan – April 8, 2015 – The City of Flint is proceeding with a series of actions to ensure the continued safety of Flint drinking water is maintained and that issues of discoloration and odor continue to be addressed. Most notably, the installation of a Granulated Active Charcoal filter (GAC) at the Water Treatment Plant is expected to be authorized this week by Emergency Manager Jerry Ambrose.

The introduction of the GAC to the treatment process at Flint's plant will absorb or reduce the chemical precursors which will block or eliminate the formation of TTHM during the filtration process. Engineering and design are underway and installation of the GAC is targeted for completion by mid-July. Cost of this improvement is projected at $1.5 million and will be paid for by the proceeds from the state approved restructuring of the City's Drinking Water Revolving Fund loans.

In addition to the installation of the GAC, the City of Flint is undertaking a number of other improvements to the water system in the coming months, including a water leak detection monitoring, completion of the hydraulic model and subsequent targeted hydrant flushing program, and the replacement of two miles of water main pipe in a critical area of the city. All of these improvements scheduled to occur within the next six months.

"The replacement of this two mile section of pipe along Dupont Street has been identified by a water reliability study as a significant piece of infrastructure and will greatly improve the movement of water in that area of the

city," said Dept. of Public Works Director Howard Croft. Increasing the circulation of the water in the system will immediately result in improvements in water aesthetics, such as discoloration and odor. The MDEQ has given its approval to the project and the process of bidding for construction will begin next week. Construction will take place during the summer of this year.

Ongoing repairs and maintenance also continue to improve the health of the system. To date, about 200 water main breaks have been repaired this year. Whenever major work that may disrupt service is scheduled, the City works to notify residents in the affected area with signage and with posts to cityofflint.com. Updates will include the area of work and the estimated time of completion.

Each main break repair stirs sediments in the line. "Residents should know that there is a chance of discoloration or odor any time work is being done on a main in their area," said Croft. "This is nothing to be alarmed about and it doesn't mean the water is unsafe." If discoloration of water or odor occurs due to repairs, residents are reminded that running the water for a few minutes should clear the line. Anyone with water questions should call 810-787-6537.

The City of Flint remains committed to addressing water related issues. Along with maintaining the safety of the water, addressing quality and affordability are top priorities. The steps outlined above are indicators of the City's progress in addressing the most pressing concerns surrounding water. Emergency Manager Ambrose reiterated that development of a contract with DWSD was not going to happen.

"Those advocating for a return to DWSD do not want to recognize the financial realities of such a move. Not only would such a move increase the City's costs by more than $1million per month, but the water from Detroit is no safer than Flint water, as both entities are measured by the same MDEQ standards that have been in place for years. Why anyone would want to send a million dollars a month to DWSD rather than make necessary repairs to the City's own system is beyond me."

Further updates on the progress being made to improve Flint's water system will released in regular updates to the media and in updates to the City's website, cityofflint.com. Anyone wishing to report an issue can do so under "Online Services". Anyone with questions about these or any other water issues should call the water treatment plant at 810-787-6537.

–END–

-Jason Lorenz
Public Information Officer
City of Flint

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jlorenz@cityofflint.com

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Mayor

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–END–

From: Muchmore, Dennis (GOV)
Sent: Thursday, April 09, 2015 5:38 PM
To: Hollins, Harvey (GOV)
Subject: FW: PRESS RELEASE: Flint Water Improvements
Attachments: Flint Water Improvements 2015.pdf

You would think this would help a little. There's only so much that can be done directly.

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Wednesday, April 08, 2015 12:04 PM
Subject: PRESS RELEASE: Flint Water Improvements

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–END–

From: Muchmore, Dennis (GOV)
Sent: Monday, April 27, 2015 5:44 PM
To: Workman, Wayne (TREASURY)
Cc: Saxton, Thomas (Treasury); Clement, Elizabeth (GOV); Wurfel, Sara (GOV); Baird, Richard (GOV); Gelisse, Ashley (TREASURY); Storberg, Ann Marie (TREASURY); Koryzno, Edward (Treasury); Headen, Frederick (Treasury)
Subject: Re: scanned doc

Would someone please explain to me how cutting off water to 10,000 people does anything but bring the wrath of God down on all of us?

Sent from my iPhone

On Apr 27, 2015, at 10:29 AM, Workman, Wayne (TREASURY) <WorkmanW@michigan.gov> wrote:

> We received this letter Friday the 24th. Water shut-off threat continues.
>
> ---
>
> **From:** Dempkowski, Angela (Treasury)
> **Sent:** Monday, April 27, 2015 10:26 AM
> **To:** Workman, Wayne (TREASURY)
> **Subject:** scanned doc

<image001.jpg>

Angela Dempkowski | Senior Executive Management Assistant/Treasury
State of Michigan | 430 W. Allegan Street, 1st Floor | Lansing, MI 48922
PPI (517) 373-0633 (fax)
dempkowskia@michigan.gov

Think Green! Don't print this e-mail unless you need to.

CONFIDENTIALITY NOTICE: This e-mail, and any attachments, is for the sole use of the intended recipient(s) and may contain information that is confidential and protected from disclosure under the law. Any unauthorized review, use, disclosure, or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail, and delete/destroy all copies of the original message and attachments.
Thank you

<DWSD-HP letter.pdf>

From: Muchmore, Dennis (GOV)
Sent: Monday, June 01, 2015 5:29 PM
To: 'hilleg[PPI redacted]
Subject: FW: Flint Water Situation

Can we meet with you to discuss this?

From: Hovey, Amy [mailto:Amy.Hovey@mail.house.gov]
Sent: Monday, June 01, 2015 2:39 PM
To: Muchmore, Dennis (GOV)
Subject: Flint Water Situation

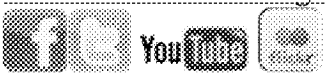
Good afternoon Dennis –

It was great talking with you at the Michigan Policy Conference last week. I am writing to follow up. I am hoping that we can schedule a meeting with the Michigan Health Endowment Fund to discuss the possibilities of the getting a grant to help with the water situation in Flint. At least some subsidy dollars for the very poor that are paying water bills three times higher than the average citizen in this state. I can make myself available to meet in Lansing.

Thank you for your help with this critical issue. I look forward to hearing from you soon.

Enjoy your day!
Amy

Amy Hovey
District Chief of Staff
Congressman Dan Kildee (MI-05)
801. S Saginaw St.
Flint, MI 48502
Phone: (810) 238-8627
www.dankildee.house.gov
www.dankildee.house.gov



http://dankildee.house.gov/newsletter-subscription/

From: Muchmore, Dennis (GOV)
Sent: Wednesday, July 22, 2015 3:04 PM
To: Lyon, Nick (DCH)
Subject: Flint

I'm frustrated by the water issue in Flint. I really don't think people are getting the benefit of the doubt. Now they are concerned and rightfully so about the lead level studies they are receiving from the DEQ samples. Can you take a moment out of your impossible schedule to personally take a look at this? These folks are scared and worried about the health impacts and they are basically getting blown off by us (as a state we're just not sympathizing with their plight).

From: Muchmore, Dennis (GOV)
Sent: Wednesday, July 22, 2015 3:05 PM
To: Wyant, Dan (DEQ)
Cc: Hollins, Harvey (GOV)
Subject: Flint

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From: Muchmore, Dennis (GOV)
Sent: Thursday, July 23, 2015 7:21 AM
To: Hollins, Harvey (GOV)
Subject: Re: '20150722_Meeting with Flint's Clean Water Coalition'

Talked with Saxton, workman, and Lyon about the issues. Collecting the info and then we'll see where it all stands.

Sent from my iPhone

On Jul 22, 2015, at 4:49 PM, Hollins, Harvey (GOV) <hollinsh@michigan.gov> wrote:

> Chief,
> Just got a call from Wendy re the notes from the Flint meeting. I took a picture of your notes and sent them to you via text. Attached is a copy of my notes.
>
> <20150722_Meeting with Flint's Clean Water Coalition.docx>
>
> Best,
> Harvey Hollins III, Director
> Governorâ€™s Office of Urban Initiatives
>
> 313.456.4994 (office)
> PPI Cell)

From: Muchmore, Dennis (GOV)
Sent: Friday, July 24, 2015 3:56 PM
To: Saxton, Thomas (Treasury)
Cc: Workman, Wayne (TREASURY)
Subject: RE: RDS/DM/EC/JW/NKhouri/TSaxton/WWorkman - Local Government Update

OK

-----Original Message-----
From: Saxton, Thomas (Treasury)
Sent: Friday, July 24, 2015 3:35 PM
To: Muchmore, Dennis (GOV)
Cc: Workman, Wayne (TREASURY)
Subject: RE: RDS/DM/EC/JW/NKhouri/TSaxton/WWorkman - Local Government Update

Next week sometime can Wayne & I have a follow up conversation with you re Flint water? Wayne & I had a call with Brad W. @ DEQ. He is getting back to us re some of the items on your list. So maybe mid-week?
I think the bottom line is Wayne, Brad & I (we would "volunteer") to meet with your minister group here in Lansing [to the extent we can] provide info to some of the issues they raised with you. It may be better that you are not at the meeting. Of course that is your call but maybe let us 'peons' do it. Harvey could be there in your stead; since he knows them. I am sure whatever we convey they probably won't be happy.

-----Original Message-----
From: Muchmore, Dennis (GOV)
Sent: Wednesday, July 22, 2015 2:44 PM
To: Workman, Wayne (TREASURY)
Cc: Clement, Elizabeth (GOV); Wisniewski, Wendy (GOV); Workman, Wayne (TREASURY); Saxton, Thomas (Treasury); Pleyte, Beth (Treasury); Doyle, Maureen (Treasury); Walsh, John (GOV); Khouri, Nick (TREASURY); Dempkowski, Angela (Treasury)
Subject: Re: RDS/DM/EC/JW/NKhouri/TSaxton/WWorkman - Local Government Update

Wayne-
We need to have more discussion relating to Flint water. There seem to be even more issues regarding the water than there should be. I'll have a series of questions that I really need some answers to if you can have someone who understands the problems there. The people there just seem to be getting a raw deal from the city particularly in terms of the information they are getting. I know you are as worried about their health as I am so we kind of need to get answers to some of these concerns.

> On Jul 22, 2015, at 2:08 PM, GovCalendar <GovCalendar@michigan.gov> wrote:
>
> Agenda:
> Wayne County
> • PA 436
> Highland Park
> • Water System Privatization
> • OPEB Reforms
> Royal Oak Township
> • Management Issues

> Pontiac
> • Budget Surplus
> • Federal Litigation - OPEB
> Flint
> • Water System/KWA
> • Federal Litigation - OPEB
> Ecorse
> • Home Rule Issues/RTAB
> Benton Harbor
> • Litigation – Former Employees v. City and Former EM
> Allen Park
> • Police Proposed New Contract
> Lansing
> • Pension and OPEB Discussion
>
> Attachment: WWorkman Memo
>
>
> <Local Government Update.pdf>
> <meeting.ics>

From: Muchmore, Dennis (GOV)
Sent: Friday, July 24, 2015 6:16 PM
To: Wurfel, Brad (DEQ); Saxton, Thomas (Treasury); Wyant, Dan (DEQ)
Cc: Hollins, Harvey (GOV)
Subject: RE: Need upate on lead / copper tests for Flint

Thanks.

From: Wurfel, Brad (DEQ)
Sent: Friday, July 24, 2015 4:18 PM
To: Saxton, Thomas (Treasury); Muchmore, Dennis (GOV); Wyant, Dan (DEQ)
Subject: FW: Need upate on lead / copper tests for Flint

Guys, here's an update and some clarification on the lead situation in Flint. Please limit this information to internal for now.

By the tenants of the federal statute, the city is in compliance for lead and copper. That aside, they have not optimized their water treatment (for the most part, this means adding phosphates to minimize the degree that the water Ph mobilizes lead and copper in people's home plumbing).

Compliance with the standard started with testing. A June-December run of tests (all in homes with lead in their premise plumbing) concluded in December. Another January – June round of sampling concluded last month. Everything checks out in terms of compliance, but now the next step is optimizing the water supply.

So, In about two weeks, DEQ will be sending a formal communication about the optimizing issue. The federal program has long timelines for action. A community water supplier gets 18 months to study the options, and two years thereafter to implement water system optimization measures.

My point: Conceivably, by the time we're halfway through the first timeline, the city will begin using a new water source with KWA … and conceivably, the whole process starts all over again.

In terms of near-future issues, the bottom line is that residents of Flint do not need to worry about lead in their water supply, and DEQ's recent sampling does not indicate an eminent health threat from lead or copper. That said, anyone with lead pipes in their premise plumbing (this translates to tens of thousands of homes in our older urban centers, btw) should at least be aware that they have them, and to some limited degree that's going to impart minute parts per billion of lead in water no matter what. Its why nobody uses lead water pipes anymore.

The long version of this note is below. Let's connect next week. I'd like some thoughts about what more the state could be doing – most immediately, to convey the results of our testing and tell the story to the residents of Flint in an effort to quell some fears.
Thanks!
b

From: Busch, Stephen (DEQ)
Sent: Friday, July 24, 2015 3:46 PM
To: Wurfel, Brad (DEQ)
Cc: Shekter Smith, Liane (DEQ); Wyant, Dan (DEQ); Pallone, Maggie (DEQ); Prysby, Mike (DEQ); Benzie, Richard (DEQ)
Subject: RE: Need upate on lead / copper tests for Flint

Brad,

As we discussed, the City has completed the last round of monitoring (Jan 1 – June 30, 2015). The last samples came in about a week ago. We have made the compliance determination that the 90th percentile level is 11 parts per billion, which is below the Action Level Standard of 15 parts per billion (there is no Lead maximum contaminant level standard). The federal rule requires measuring lead levels in water from household plumbing materials to determine the corrosivity of the City's water in order to limit exposure.

I have provided a summary of Flint's lead compliance monitoring from the last 20+ years since this regulation started in 1991. The City of Flint itself has never had a 90th percentile level exceed the 15 part per billion action level. Sampling requirements look at the worst case plumbing materials. Samples must be collected in accordance with the regulatory requirements and criteria in order to be used for compliance determinations.

Because the City of Flint serves a population of over 50,000 they are required to have Fully Optimized Corrosion Control. While it is possible to meet the fully optimized requirement without additional treatment, based on their two rounds of sampling since switching to the Flint River, we have determined they did not meet the eligibility for this per the regulation. They now have to complete a study (within 18 months) and are then allowed a period of additional time (2 additional years) to install the selected treatment for Fully Optimized Corrosion Control in accordance with the regulatory requirements. This is what DWSD was required to do back in 1993 – 1997 (see attached letter and study). We are planning to suggest the City directly submit a treatment process to shorten the timeline to achieve full optimization. This letter is currently being drafted but won't be ready to mail out for another week.

Liane and I had a conference call with EPA region V in Chicago on Tuesday to go over all of this and they are in support of these next steps with the City.

The matter will be potentially further complicated when the City switches over to water from the Karegnondi Water Authority next year to re-evaluate the continuing requirement to fully optimize corrosion control.

The DEQ recognizes that there is has been no level of lead exposure determined to be safe, but again the regulation was developed to optimize water corrosivity to limit exposure and the City is following the regulatory requirements.

Lead is not coming from the Flint River or the City's Water Treatment Plant or the public distribution system. It is from lead service lines into homes and from plumbing materials and fixtures within the private property of the household.

As watermains are replaced within the City lead services associated with that section of watermain would be replaced in order to reconnect to City water. This would also place burden on the homeowner to pay for having the service line re-plumbed. However, since 2000 only 16 miles of the City's 500 miles of watermain have been replaced as they did not have the financial means to do so.

Let us know if there are questions or you need any additional information.

Stephen Busch, P.E.
MDEQ Lansing District Coordinator

Office of Drinking Water and Municipal Assistance
Lansing and Jackson District Supervisor
517-643-2314
buschs@michigan.gov

From: Wurfel, Brad (DEQ)
Sent: Friday, July 24, 2015 12:09 PM
To: Busch, Stephen (DEQ); Prysby, Mike (DEQ)
Cc: Shekter Smith, Liane (DEQ); Wyant, Dan (DEQ); Pallone, Maggie (DEQ)
Subject: Need upate on lead / copper tests for Flint

Guys, the Flint Ministers met with the Governor's office again last week. They also brought along some folks from the community – a college prof and a GM engineer – who imparted that 80 water tests in Flint have shown high lead levels.

Could use an upate on the January / june testing results, as well as recap of the December testing numbers, and any overview you can offer to edify this conversation.
Call me or email today if possible. Thanks!
b

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713

PPI

From: Muchmore, Dennis (GOV)
Sent: Wednesday, July 29, 2015 9:02 AM
To: 'Workman, Wayne (TREASURY)'; Wurfel, Brad (DEQ); Lyon, Nick (DCH); Clement, Elizabeth (GOV); 'Hollins, Harvey (GOV)'
Cc: Saxton, Thomas (Treasury); Wisniewski, Wendy (GOV)
Subject: RE: Updated Memo on Water Coalition Questions - July 29

I think this information is very helpful. It will not answer the main question about the quality of the water (DEQ is working on that through Brad I believe), and the color and smell of the present water, but it does get us to the answers to the less subjective issues. Frankly, the only way the issues will be totally resolved is when the KWA comes on line and the water is perceived to be cleaner and healthier.
I am somewhat surprised that the leadership in Flint has not responded better to the community questions, which don't seem unreasonable at all. Seems like Harvey has a better network into some of the neighborhoods than the city does. The KWA PR department definitely needs to do some outreach or they're headed down the same road as DWSD. Do you know if they go out on a regular basis to the community and talk about the rates, costs, etc.?

From: Workman, Wayne (TREASURY)
Sent: Wednesday, July 29, 2015 8:36 AM
To: Muchmore, Dennis (GOV); Wurfel, Brad (DEQ); Lyon, Nick (DCH); Clement, Elizabeth (GOV)
Cc: Saxton, Thomas (Treasury); Wisniewski, Wendy (GOV)
Subject: FW: Updated Memo on Water Coalition Questions - July 29
Importance: High

All, Attached is a memo and water rate summary answering several of the questions raised by the Flint pastors. Please let me know if you have any questions. Wayne

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Cline, Richard (Treasury)
Sent: Wednesday, July 29, 2015 8:21 AM
To: Workman, Wayne (TREASURY)
Cc: Dempkowski, Angela (Treasury); Byrne, Randall (Treasury)
Subject: Updated Memo on Water Coalition Questions - July 29
Importance: High

Wayne,

Attached is the water rate table you asked for and I have updated the memo to reference this as an attachment.

If you need anything else, please let me know.

Note that Rob, Randy and I will be in Benton Harbor for a portion of today conducting their annual RTAB evaluation.

Eric Cline | Department Manager
State of Michigan | Michigan Department of Treasury | Office of Fiscal Responsibility

430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
Lansing Office (517) 335-2078 | Cell Phone [PPI] Traverse City Office (231) 922-5228
E-mail clinerl@michigan.gov

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From: Muchmore, Dennis (GOV)
Sent: Wednesday, July 29, 2015 9:03 AM
To: Hollins, Harvey (GOV)
Subject: FW: Updated Memo on Water Coalition Questions - July 29
Attachments: Memo on Water Coalition Questions III.07-29-15.docx; Flint Water Rate History FINAL 02.11.15.pdf

Importance: High

Here's the answers to some of the questions. How do you want to approach the pastors and community leaders, we owe them answers to the questions they asked.

From: Workman, Wayne (TREASURY)
Sent: Wednesday, July 29, 2015 8:36 AM
To: Muchmore, Dennis (GOV); Wurfel, Brad (DEQ); Lyon, Nick (DCH); Clement, Elizabeth (GOV)
Cc: Saxton, Thomas (Treasury); Wisniewski, Wendy (GOV)
Subject: FW: Updated Memo on Water Coalition Questions - July 29
Importance: High

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Deputy State Treasurer
Michigan Department of Treasury

From: Cline, Richard (Treasury)
Sent: Wednesday, July 29, 2015 8:21 AM
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Cc: Dempkowski, Angela (Treasury); Byrne, Randall (Treasury)
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Importance: High

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Eric Cline | Department Manager
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STATE OF MICHIGAN
DEPARTMENT OF TREASURY
LANSING

RICK SNYDER
GOVERNOR

NICK A. KHOURI
STATE TREASURER

TO: Randall Byrne, State Administrative Manager; Office of Fiscal Responsibility

FROM: Eric Cline, Department Manager; Office of Fiscal Responsibility

SUBJECT: Questions Regarding City of Flint Water System

DATE: July 28, 2015

At a July 23, 2015 meeting, Deputy Treasurer Workman posed several questions regarding the City of Flint's water system. This memo is a response to those questions.

The annual cost to the City of Flint to reconnect to the DWSD system

In a March 3, 2015 memo to Deputy Treasurer Workman, Emergency Manager Ambrose noted that he had been informed by DWSD that such a reconnection would immediately levy a fixed cost on the City of $10.1-million per year.

Actual water purchases would be in addition to the fixed cost fee and would be dependent upon actual usage, but the annual cost was estimated to be as high as $1-million/month; making the entire total of a one year connection back to DWSD as high as $22-million. This cost would be reduced to approximately $19-million/year once the City's $3-million annual expense of operating the water system itself was offset.

These calculations were outlined in a March 2015 memo from the Emergency Manager to Deputy Treasurer Workman and update cost projections provided in a February 11, 2015 memo to Chief Deputy Treasurer Tom Saxton.

The Emergency Manager also stated his concern that for the City to be able to pay these costs that water rates charged to Flint residents would need to be increased by a minimum of 30%. Water rate increases between 2010 and 2015 are illustrated in the table attached.

In addition, DWSD was requiring that the City of Flint negotiate a 30-year contract for the provision of back-up services.

The City of Flint's degree of participation in the management of the KWA system

Mayor Dayne Walling is the City's official representative to the Karegnondi Water Authority (KWA). The participation of the Mayor as the official representative for the City of Flint is established in the KWA Articles of Incorporation. Mayor Walling is the current Chair of the Board of the KWA Board of Directors.

Continued use of Flint River water after the City is connected to the KWA system

The City Administrator has confirmed that once the City is fully connected to the KWA system they will no longer continue to use Flint River water.

The Flint River, however, will be the City's primary back-up water source in the event that a major disruption in the KWA system temporarily prevents the City from receiving water.

The process used to hire Veolia

Veolia responded on January 29, 2015, to a Request for Proposal issued by the City of Flint. Emergency Manager Ambrose made the final decision to retain Veolia.

The importance of hydrant flushing

Fire hydrant flushing is an important part of distribution system maintenance. It is useful in determining flow conditions in water mains.

According to information from the American Water Works Association (AWWA), there are two types of hydrant flushing utilized. The most comprehensive method is fire-flow testing.

Fire-flow testing requires hydrants to be opened, flushed, pressure and flow data to be collected and the potential fire flow at a particular point in a water main to be determined.

Hydrant flushing permits any debris to be cleared from a water main. They process of collecting fire flow data allows the determination of water pressure and flow capabilities for fighting fires at any location within a distribution system. It can also help determine the general condition of a system by detecting reduced water flows in a given area.

Status of the GAC carbon filter installation

Six of the twelve filters will be operational by no later than the first week of August.

Activation of the filters is expected to immediately drop the levels of TTHM within the system.

The remaining six filters are projected to be installed and operational by the end of August.

Status of the DuPont Street Water Main Replacement

After an internal review, the City made the decision to rebid this project.

There were multiple reasons for this decision, which included interference with current road projects, the determination that project bids were too high, and bidding timelines which were not favorable to secure quality bids or contractors.

This project will be rebid by the City later this fiscal year.

If you have any questions or need additional information on this topic, let me know. Thank you.

Attachment

<< AUTO PATH >>

City of Flint Water Rate History

Year (Date Effective)	Average Monthly Water/Sewer Bill*	Percentage Change in Water/Sewer Rates	Water Fund** Total Operating Revenue	Water Fund** Unrestricted Net Position	Water Fund** Capital Improvements
2010	$64	12%	$31,956,754	-$5,795,973	$2,091,160
1/15/2011	$82	29%	$36,762,663	-$12,443,265	$1,403,916
9/16/2011	$111	35%			
7/1/2012	$111	26%	$44,854,439	-$8,758,091	$755,681
2013	$140	0%	$49,903,868	$834,447	$147,462
07/01/13 to 06/30/14	$140	0%	$43,552,152	$760,745	$3,301,700
07/01/14 to 06/30/15	149***	6%	N/A	N/A	N/A

Note* Water rate information is based on average usage of 7 units per month with a 5/8" residential remote meter.
Note** Water fund information was compiled from the City of Flint's CAFR filed with the Michigan Department of Treasury.
Note*** Billing breakdown contained in attached memo.

From: Muchmore, Dennis (GOV)
Sent: Thursday, July 30, 2015 9:43 AM
To: Wurfel, Brad (DEQ)
Cc: Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Flint Water Meeting

Can you join us with some Flint community leaders on Tuesday at 9:30 to talk about these water quality issues (probably need to bring your science guy)? Tom and Wayne will be there and Harvey and I promised these pastors we'd have real information for them and we do.

From: Muchmore, Dennis (GOV)
Sent: Thursday, July 30, 2015 9:47 AM
To: Hollins, Harvey (GOV)
Cc: Clayton, Stacie (GOV); Clement, Elizabeth (GOV)
Subject: Re: Water Filter

Harvey-
Treasury gave us the financial info and KWA info the ministers wanted last week and Tom and Wayne are coming to the meeting. Brad has the test results and the science guy to explain the lead issue and you have the filters (I'd keep that to yourself and bring one to the meeting so you can be a hero). Frankly, I don't see what else we can do. They aren't paying more, the water is ok, and KWA is the long term answer. If they don't like the Mayor, the primary is Tuesday and we really can't get involved in that.

On Jul 29, 2015, at 6:58 PM, Hollins, Harvey (GOV) <hollinsh@michigan.gov> wrote:

> We cannot express how much we appreciate this. Thank you!!
>
> Best,
> Harvey
>
> On Jul 29, 2015, at 5:27 PM, Behler, Stacie <Stacie.Behler@meijer.com> wrote:
>
> > They are actually being donated.
> >
> > On Jul 29, 2015, at 5:23 PM, Clayton, Stacie (GOV) <claytons3@michigan.gov> wrote:
> >
> > > Thank you, Stacie for the quick response. Harvey does have an additional question. Is the plan for the state to purchase the filters or is the Meijer Foundation donating them? The former is fine and the latter is great. If we purchase them we have to determine the process. If they are donated, I will identify the location in Flint where they will be shipped.
> > >
> > > Stacie
> > >
> > > **From:** Behler, Stacie [mailto:Stacie.Behler@meijer.com]
> > > **Sent:** Wednesday, July 29, 2015 1:56 PM
> > > **To:** Clayton, Stacie (GOV)
> > > **Cc:** Akemann, Jamie; Rolland, Heather
> > > **Subject:** Re: Water Filter
> > >
> > > We are actually good to go and ready to ship vice copied Jamie, the VP over the area and my assistant.

Just let us know the "ship to" and we are on our way.

On Jul 29, 2015, at 1:47 PM, Clayton, Stacie (GOV) <claytons3@michigan.gov> wrote:

> Hi Stacie,
>
> I hope you are doing well and enjoying your summer. Please let me know a convenient time for a phone call with you so we can discuss the water filters.
>
> Thank you,
> Stacie
>
> ***Stacie Clayton, Assistant Director***
> Harvey Hollins III, Director
> Governor's Office of Urban Initiatives
> 3044 West Grand Boulevard, Ste. 14-650
> Detroit, MI 48202
> 313.456.4994 (office)
> claytons3@michigan.gov
>
> ---
>
> **From:** Hollins, Harvey (GOV)
> **Sent:** Wednesday, July 29, 2015 1:43 PM
> **To:** Clayton, Stacie (GOV)
> **Subject:** Fwd: Water Filter
>
> Best,
> Harvey
>
> Begin forwarded message:
>
> > **From:** "Hollins, Harvey (GOV)" <hollinsh@michigan.gov>
> > **Date:** July 27, 2015 at 8:42:42 AM EDT
> > **To:** "Murray, Mark" <Mark.Murray@meijer.com>
> > **Cc:** "Behler, Stacie" <Stacie.Behler@meijer.com>, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>, "Clement, Elizabeth (GOV)" <clemente@michigan.gov>
> > **Subject: Re: Water Filter**

Mark,
Thank you. We will work with Stacie to identify the appropriate entity to receive the filters for Flint residents. In addition, we'll keep you out the public eye on this.

Please know, however, how much we appreciate Meijer and most importantly you for doing this.

Best,
Harvey

> On Jul 27, 2015, at 7:44 AM, Murray, Mark <Mark.Murray@meijer.com> wrote:
>
> Harvey -
>
> We are all set. Stacie Behler can serve as liaison on this one. The merchant team can source 1,500 filters. We will get them to the community at cost. My guess is this will be $20k or so, but the team will give you a final number.
>
> Because we don't want to be a state vendor, we won't sell them to you. Stacie will work out logistics of whether we make a donation of gift cards to the state that you use to purchase them,

or whether there is some other entity to which we can give them.

Given all the circumstances, we are not interested in any publicity. We want it to be clear that the state is providing these, not Meijer.

Thanks for reaching out.

Mark

-----Original Message-----

From: Hollins, Harvey (GOV) [mailto:hollinsh@michigan.gov]

Sent: Thursday, July 23, 2015 12:20 PM

To: Murray, Mark

Subject: RE: Water Filter

Thank you.

-----Original Message-----

From: Murray, Mark [mailto:Mark.Murray@meijer.com]

Sent: Thursday, July 23, 2015 10:57 AM

To: Hollins, Harvey (GOV)

Cc: Steele, Cindee

Subject: RE: Water Filter

Will get back soon.

-----Original Message-----

From: Hollins, Harvey (GOV) [mailto:hollinsh@michigan.gov]

Sent: Wednesday, July 22, 2015 12:17 PM

To: Murray, Mark

Subject: Water Filter

Mark,

Per our last conversation, I expressed that we were interested acquiring and distributing 1500 water filters to Flint residents to assist with the quality (perceived or real) of their drinking water until the KWA pipeline comes online.

A few weeks ago, you asked me to send you the product ID number so you could check with your suppliers regarding price. I apologize for taking long to send you product ID; a number of conversations needed to occur in Flint

before we could proceed.

The product ID for a Brita Filter for kitchen faucets is:

Product ID 3176421

UPC 7-23987-0078

Thank you for taking the time to look into this.

Best,

Harvey Hollins III, Director

Governor's Office of Urban Initiatives

313.456.4994<tel:313.456.4994> (office)

PPI (Cell)

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From: Muchmore, Dennis (GOV)
Sent: Friday, July 31, 2015 11:38 AM
To: Hollins, Harvey (GOV)
Subject: RE: Updated Memo on Water Coalition Questions - July 29

I can do it here, can't go to Flint.

From: Hollins, Harvey (GOV)
Sent: Wednesday, July 29, 2015 11:21 AM
To: Muchmore, Dennis (GOV)
Cc: Clayton, Stacie (GOV)
Subject: Re: Updated Memo on Water Coalition Questions - July 29

If your schedule permits, let's go to Flint to meet with them next week, or we can ask them to come back to Lansing. We should convey the response verbally and in person. If you're open to it, I'll ask Stacie to schedule that meeting next week.

Best,
Harvey

On Jul 29, 2015, at 9:03 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> Here's the answers to some of the questions. How do you want to approach the pastors and community leaders, we owe them answers to the questions they asked.
>
> ---
>
> **From:** Workman, Wayne (TREASURY)
> **Sent:** Wednesday, July 29, 2015 8:36 AM
> **To:** Muchmore, Dennis (GOV); Wurfel, Brad (DEQ); Lyon, Nick (DCH); Clement, Elizabeth (GOV)
> **Cc:** Saxton, Thomas (Treasury); Wisniewski, Wendy (GOV)
> **Subject:** FW: Updated Memo on Water Coalition Questions - July 29
> **Importance:** High
>
> All, Attached is a memo and water rate summary answering several of the questions raised by the Flint pastors. Please let me know if you have any questions. Wayne
>
> Wayne L. Workman
> Deputy State Treasurer
> Michigan Department of Treasury
>
> ---
>
> **From:** Cline, Richard (Treasury)
> **Sent:** Wednesday, July 29, 2015 8:21 AM
> **To:** Workman, Wayne (TREASURY)
> **Cc:** Dempkowski, Angela (Treasury); Byrne, Randall (Treasury)
> **Subject:** Updated Memo on Water Coalition Questions - July 29
> **Importance:** High
>
> Wayne,

Attached is the water rate table you asked for and I have updated the memo to reference this as an attachment.

If you need anything else, please let me know.

Note that Rob, Randy and I will be in Benton Harbor for a portion of today conducting their annual RTAB evaluation.

Eric Cline | Department Manager
State of Michigan | Michigan Department of Treasury | Office of Fiscal Responsibility
430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
Lansing Office (517) 335-2078 | PPI | Traverse City Office (231) 922-5228
E-mail cliner1@michigan.gov

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<Memo on Water Coalition Questions III.07-29-15.docx>

<Flint Water Rate History FINAL 02.11.15.pdf>

From: Muchmore, Dennis (GOV)
Sent: Monday, August 03, 2015 11:52 AM
To: 'Lyon, Nick (DCH)'; Workman, Wayne (TREASURY); Wurfel, Brad (DEQ); Clement, Elizabeth (GOV); Hollins, Harvey (GOV)
Cc: Saxton, Thomas (Treasury); Wisniewski, Wendy (GOV); Grijalva, Nancy (DCH)
Subject: RE: Updated Memo on Water Coalition Questions - July 29

Can I reprint Nancy's email?

From: Lyon, Nick (DCH)
Sent: Friday, July 31, 2015 10:57 AM
To: Muchmore, Dennis (GOV); Workman, Wayne (TREASURY); Wurfel, Brad (DEQ); Clement, Elizabeth (GOV); Hollins, Harvey (GOV)
Cc: Saxton, Thomas (Treasury); Wisniewski, Wendy (GOV); Grijalva, Nancy (DCH)
Subject: Re: Updated Memo on Water Coalition Questions - July 29

Our Public Health staff followed up a bit more on the lead question. Below is their email update to me.

From: Grijalva, Nancy (DCH)
Sent: Wednesday, July 29, 2015 11:23 AM
To: Lyon, Nick (DCH)
Subject: FW: Director's Office Assignment -- Flint - need update asap
FYI.....
-----Original Message-----
From: Peeler, Nancy (DCH)
Sent: Tuesday, July 28, 2015 2:57 PM
To: Anderson, Paula (DCH); Miller, Corinne (DCH); Travis, Rashmi (DCH); Moran, Susan (DCH); Grijalva, Nancy (DCH); Fink, Brenda (DCH)
Cc: Priem, Wesley F. (DCH); Dykema, Linda D. (DCH); Bouters, Janese (DCH); Barr, Jacqui (DCH)

Subject: RE: Director's Office Assignment -- Flint - need update asap

I apologize for the delay in responding more specifically to this assignment, it took some time to review our Childhood Lead Poisoning Prevention program data to see if it might contribute to the understanding of the situation in Flint with their water supply. Here is what we found:

We looked at lead testing results for May 2014-April 2015, which is the 12 month time frame just after Flint started drawing their water from the river (water source changed in April 2014).

We compared lead testing rates and lead testing results to the same time frame for the previous 3 years, to see if there were any patterns that suggested that there were increased rates of lead poisoning after the water supply was switched. Per the attached charts –

- Lead testing rates remained about the same from year to year (chart on the right).
- There was a spike in elevated blood lead tests from July-September 2014 (chart on the left, gold line).
- However that pattern was not terribly different from what we saw in the previous three years, especially in 2011-2012 (we are working with our Epidemiologist to statistically verify any significant differences).

- We commonly see a 'seasonal effect' with lead, related to people opening and closing windows more often in the summer, which disturbs old deteriorating paint on the windows, sills and sashes. Window fans frequently blow and spread the lead dust from the deteriorating paint to other parts of the room/house. We suspect that the summer data spike may be related to this effect.
- If the home water supply lines and/or river water were contributing to elevated blood lead tests, we expected that the increased rates would extend beyond the summer, but they drop quite a bit from September to October, stayed low over the winter, and are just starting to tail up again in the spring of 2015.

So upon review, we don't believe our data demonstrates an increase in lead poisoning rates that might be attributable to the change in water source for Flint. We recognize that lead exposure via the water is only a small piece of what may be happening for families in Flint, however, we hope the information is helpful.

Nancy Peeler

From: Muchmore, Dennis (GOV)
Sent: Wednesday, July 29, 2015 9:02 AM
To: Workman, Wayne (TREASURY); Wurfel, Brad (DEQ); Lyon, Nick (DCH); Clement, Elizabeth (GOV); Hollins, Harvey (GOV)
Cc: Saxton, Thomas (Treasury); Wisniewski, Wendy (GOV)
Subject: RE: Updated Memo on Water Coalition Questions - July 29

I think this information is very helpful. It will not answer the main question about the quality of the water (DEQ is working on that through Brad I believe), and the color and smell of the present water, but it does get us to the answers to the less subjective issues. Frankly, the only way the issues will be totally resolved is when the KWA comes on line and the water is perceived to be cleaner and healthier.
I am somewhat surprised that the leadership in Flint has not responded better to the community questions, which don't seem unreasonable at all. Seems like Harvey has a better network into some of the neighborhoods than the city does. The KWA PR department definitely needs to do some outreach or they're headed down the same road as DWSD. Do you know if they go out on a regular basis to the community and talk about the rates, costs, etc.?

From: Workman, Wayne (TREASURY)
Sent: Wednesday, July 29, 2015 8:36 AM
To: Muchmore, Dennis (GOV); Wurfel, Brad (DEQ); Lyon, Nick (DCH); Clement, Elizabeth (GOV)
Cc: Saxton, Thomas (Treasury); Wisniewski, Wendy (GOV)
Subject: FW: Updated Memo on Water Coalition Questions - July 29
Importance: High

All, Attached is a memo and water rate summary answering several of the questions raised by the Flint pastors. Please let me know if you have any questions. Wayne

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Cline, Richard (Treasury)
Sent: Wednesday, July 29, 2015 8:21 AM

To: Workman, Wayne (TREASURY)
Cc: Dempkowski, Angela (Treasury); Byrne, Randall (Treasury)
Subject: Updated Memo on Water Coalition Questions - July 29
Importance: High

Wayne,

Attached is the water rate table you asked for and I have updated the memo to reference this as an attachment.

If you need anything else, please let me know.

Note that Rob, Randy and I will be in Benton Harbor for a portion of today conducting their annual RTAB evaluation.

Eric Cline | Department Manager
State of Michigan | Michigan Department of Treasury | Office of Fiscal Responsibility
430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
Lansing Office PPI Traverse City Office (231) 922-5228
E-mail clinere1@michigan.gov

CONFIDENTIALITY NOTICE: This e-mail, and any attachments, is for the sole use of the intended recipient(s) and may contain information that is confidential and protected from disclosure under the law. Any unauthorized review, use, disclosure, or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail, and delete/destroy all copies of the original message and attachments Thank you.

From: Muchmore, Dennis (GOV)
Sent: Monday, August 03, 2015 4:10 PM
To: 'Wurfel, Brad (DEQ)'
Subject: RE: dennis muchmore has sent you - Flint pastors tell residents to get their water tested - from Detroit News

Just be prepared for them not being satisfied. I'm not sure I blame them as that river has always been problematic.

-----Original Message-----
From: Wurfel, Brad (DEQ)
Sent: Monday, August 3, 2015 2:49 PM
To: Muchmore, Dennis (GOV); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); Hollins, Harvey (GOV); Wurfel, Sara (GOV); Agen, Jarrod (GOV)
Cc: Clement, Elizabeth (GOV); Wyant, Dan (DEQ)
Subject: RE: dennis muchmore has sent you - Flint pastors tell residents to get their water tested - from Detroit News

That AP brief came from this Flint Journal story:
http://www.mlive.com/news/flint/index.ssf/2015/08/concerned_pastors_urge_flint_r.html#incart_river

Here's one that showcases the local clergy. I presume most of these folks will be with us tomorrow?
http://www.mlive.com/news/flint/index.ssf/2015/06/judge_says_flint_doesnt_have_t_1.html#incart_related_stories

Just had a pre-meet with Stephen Busch, our drinking water expert who oversees the staff regulating Flint. He's planning to bring some information on the history of the water / lead issue in Flint, as well as some data about the most recent statutorily required testing. He'll be able to discuss the state program (which implements the federal statute), what we've been doing by way of testing, what we're finding, and what residents should do if they have concerns.

Anything else anyone wants us to be prepared for?
b

-----Original Message-----
From: Muchmore, Dennis (GOV)
Sent: Monday, August 03, 2015 11:55 AM
To: Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); Hollins, Harvey (GOV); Wurfel, Sara (GOV); Wurfel, Brad (DEQ); Agen, Jarrod (GOV)
Cc: Clement, Elizabeth (GOV)
Subject: FW: dennis muchmore has sent you - Flint pastors tell residents to get their water tested - from Detroit News

Here's part of our on-going problem.

-----Original Message-----
From: do-not-reply@detroitnews.com [mailto:do-not-reply@detroitnews.com]
Sent: Monday, August 3, 2015 11:49 AM
To: Muchmore, Dennis (GOV)
Subject: dennis muchmore has sent you - Flint pastors tell residents to get their water tested - from Detroit News

Message from: muchmored@michigan.gov

Flint pastors tell residents to get their water tested

Some area pastors held a rally Sunday to urge residents to get their tap water tested

Check out this story on detroitnews.com: http://detne.ws/1SAH1K6

From: Muchmore, Dennis (GOV)
Sent: Monday, August 03, 2015 4:17 PM
To: 'Wurfel, Brad (DEQ)'
Subject: RE: dennis muchmore has sent you - Flint pastors tell residents to get their water tested - from Detroit News

Yep, that's them. They haven't been too bad in private. I think they're just frustrated with the city and they aren't happy with the EM in the first place. We're working with them to get their complaints mostly spoken to, but the brown water makes it tough for them to get to home plate.

-----Original Message-----
From: Wurfel, Brad (DEQ)
Sent: Monday, August 3, 2015 2:49 PM
To: Muchmore, Dennis (GOV); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); Hollins, Harvey (GOV); Wurfel, Sara (GOV); Agen, Jarrod (GOV)
Cc: Clement, Elizabeth (GOV); Wyant, Dan (DEQ)
Subject: RE: dennis muchmore has sent you - Flint pastors tell residents to get their water tested - from Detroit News

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http://www.mlive.com/news/flint/index.ssf/2015/08/concerned_pastors_urge_flint_r.html#incart_river

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Anything else anyone wants us to be prepared for?
b

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From: Muchmore, Dennis (GOV)
Sent: Monday, August 03, 2015 11:55 AM
To: Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); Hollins, Harvey (GOV); Wurfel, Sara (GOV); Wurfel, Brad (DEQ); Agen, Jarrod (GOV)
Cc: Clement, Elizabeth (GOV)
Subject: FW: dennis muchmore has sent you - Flint pastors tell residents to get their water tested - from Detroit News

Here's part of our on-going problem.

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From: do-not-reply@detroitnews.com [mailto:do-not-reply@detroitnews.com]
Sent: Monday, August 3, 2015 11:49 AM
To: Muchmore, Dennis (GOV)
Subject: dennis muchmore has sent you - Flint pastors tell residents to get their water tested - from Detroit News

Message from: muchmored@michigan.gov

Flint pastors tell residents to get their water tested

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Check out this story on detroitnews.com: http://detne.ws/1SAH1K6

From: Muchmore, Dennis (GOV)
Sent: Wednesday, August 05, 2015 9:04 AM
To: Hollins, Harvey (GOV)
Cc: Clayton, Stacie (GOV)
Subject: RE: '20150804_Meeting with Flint's Clean Water Coalition'

I didn't think that meeting was as useful as others. If people won't accept the factual information, I'm not sure there is much we can do about it. They're getting their own filters, we've installed six at the main and I thought there were six more coming. As for the flushing, that's part of any city's water system, and people in every community pay for it. As to the frequency, there must be a plan to reduce the number of times.

Questions:
Why does KWA only produce 18 million gals? Doesn't make sense to have a system that doesn't produce enough water. Where do they expect to get the other from? Especially since GM doesn't want the Flint river water (even though presumably GM has been both the biggest commercial user and disposer), how do they separate out the flow?

We can't do too many more of these. The three activists in the room just want to be right, they don't want answers. No matter what we say they'll always want something else to be the answer. The Pastors and the woman form yesterday who usually sits across from me and who always lectures us (that's just a reminder of some of the old time negative racial experiences she's had and I get it) are really a strong group of people. Usually there is a black woman who comes with them, but I missed her yesterday. I really her and of course, Overton and Hill are pretty impressive people in their own right.

From: Hollins, Harvey (GOV)
Sent: Wednesday, August 5, 2015 8:32 AM
To: Muchmore, Dennis (GOV)
Cc: Clayton, Stacie (GOV)
Subject: '20150804_Meeting with Flint's Clean Water Coalition'

Subject: FW: HH/DM & others Re: KWA (Flint Water)
Location: Governor's Conference Room

Start: Wed 8/26/2015 1:30 PM
End: Wed 8/26/2015 2:00 PM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Clayton, Stacie (GOV)

You should come to this...

-----Original Appointment-----
From: Clayton, Stacie (GOV)
Sent: Thursday, August 6, 2015 1:45 PM
To: Clayton, Stacie (GOV); Hollins, Harvey (GOV); Muchmore, Dennis (GOV); Workman, Wayne (TREASURY); Saxton, Thomas (Treasury); Dempkowski, Angela (Treasury); Wisniewski, Wendy (GOV)
Subject: HH/DM & others Re: KWA (Flint Water)
When: Wednesday, August 26, 2015 1:30 PM-2:00 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Governor's Conference Room

Call In:
Access: **PPI**
Harvey will host

Attendees
Dennis Muchmore
Harvey Hollins
Tom Saxton
Wayne Workman -- via phone
Jeff Wright, Genesee Drain Commissioner and Chair of KWA
John O'Brien, Genesee Drain Deputy Commissioner
Dave Jansen, assistant to J. Wright

Agenda Items:
1) Financing of new water system
2) Governing of the new water system
3) Timeline for the build out of KWA

From: Muchmore, Dennis (GOV)
Sent: Thursday, September 03, 2015 8:19 AM
To: 'Workman, Wayne (TREASURY)'; Saxton, Thomas (Treasury); Agen, Jarrod (GOV); Clement, Elizabeth (GOV); 'Wurfel, Sara (GOV)'; Murray, David (GOV)
Subject: FW: info about KWA from Drain Commissioner Jeff Wright
Attachments: SKMBT_65215090211430.pdf

FYI

From: Karen Teeples [mailto:K_TEEPLES@gcdcwws.com]
Sent: Wednesday, September 2, 2015 11:44 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Wisniewski, Wendy (GOV) <wisniewskiw@michigan.gov>
Subject: info about KWA from Drain Commissioner Jeff Wright

GENESEE COUNTY DRAIN COMMISSIONER'S OFFICE
JEFFREY WRIGHT
COMMISSIONER
G-4608 BEECHER ROAD, FLINT, MI 48532
PHONE (810) 732-1590 FAX (810) 732-1474

MEMORANDUM

DATE: September 2, 2015

TO: Dennis Muchmore, Chief of Staff, State of Michigan, Office of the Governor
Harvey Hollins III, Director, Office of Urban Initiatives, State of Michigan

FROM: Jeff Wright, Drain Commissioner, Genesee County

SUBJECT: Karegnondi Water Authority
Fact Sheets

Gentlemen,

Find enclosed 3 items as promised at our meeting of August 26, 2015.

1. Original Fact Sheet
   DWSD vs. KWA: 5/1/12

2. KWA Fact Sheet: 9/1/15

3. DWSD Cost of Water

Should you have any questions, do not hesitate to contact me directly at 810-287-1925.

VIA EMAIL: [redacted]

Fact Sheet
City of Flint
DWSD versus KWA

Issue: City of Flint joining Karegnondi Water Authority and leaving City of Detroit water system

Fact: Both the City of Flint and City of Detroit operate their water system via enterprise funds. The water fund does not impact either community's general fund. Leaving the water system will not impact the general fund.

Fact: The City of Flint is a suburban customer of Detroit. If Flint leaves, it only impacts the suburban customer rate, not Detroit's.

Fact: Detroit's own plan calls for (latest available estimate) $1.2 billion dollar improvements to supply redundancy to Flint. If Flint leaves, Detroit avoids this construction cost.

Fact: Detroit and DWSD have experienced bond rating decreases in recent months. If Flint leaves, DWSD avoids a new bond issue and eliminates a capital project from its master plan improving its financial outlook.

Fact: Delivering water to Flint from DWSD is expensive. If Flint leaves, DWSD can reduce its operating and maintenance costs to its contracted customers.

Fact: DWSD has a limited capacity for water treatment and delivery. If Flint leaves, the City can resell that volume to other customers.

Fact: DWSD has multiple drinking water treatment plants. Some are more expensive to operate and maintain than others. Without a commitment to Flint, its largest customer other than the City of Detroit, DWSD may choose to discontinue operation of one or more of its current facilities and realize significant cost reductions to the overall system.

Fact: Flint is not part of the DWSD sewer system. The City of Flint leaving has no impact on the sewer system.

Fact: The creation of the KWA system will create over 1,000 construction jobs in Michigan. Design and construction of the system will take 42 months from July 2012 through December 2015.

Fact: KWA is offering a fixed rate for capital to its customers. Flint joining KWA will give the City a stable rate for upwards of 20 years.

Fact: KWA will offer raw water to the region. Raw water is not enhanced with chemicals, which is undesirable to agribusiness.

Fact: The I-69 corridor/I-75 corridor crosses in Flint. Along with CN and CSX and the pipeline aerotropolis, Flint can be a major transportation center for agribusiness. KWA can provide two products for agribusiness: potable and process (raw) water, and wastewater treatment facilities.

Fact: DWSD does not serve the Thumb region. KWA with its partners will be able to serve both the population with its basic needs: drinking water and the businesses with large quantities of process (raw) water.

Fact: DWSD is the only water supplier for over 4 million residents of the state. The creation of the KWA will create a second water supply system thereby reducing the impact of terrorist attacks on water supplies. With a mutual aid agreement between DWSD and KWA, the system could complement each other.

Fact: DWSD does not provide water supply to major portions of the KWA service area. KWA will provide local municipalities in the thumb region with an alternative water supply to the Arsenic impacted well systems.

In addition, local communities can replace groundwater systems with KWA surface water system and thereby improve local groundwater levels.

The KWA system will provide fire protection service to regions currently not served.

Fact: The current DWSD water system has over 20% water loss in its system. KWA's water supply is expected to have less than a 5% water loss. KWA will provide a more effective use of the waters of the state.

Fact: KWA provides redundant water supply to Flint. Currently, DWSD only provides a single source to Flint. KWA provides multiple supply sources to Flint at a fraction of the cost.

Fact: KWA has offered to purchase excess infrastructure from DWSD. If Flint leaves, Detroit has 25 miles of watermain it no longer needs. KWA has offered to purchase the pipeline and enter into a long-term arrangement for purchase of water from DWSD.

Fact: Each incorporating municipality in KWA will pay the same rate for raw water; therefore, each community will set its own treatment standards and exert local control of the cost of water it provides to its citizens.

Fact: Lapeer and Sanilac Counties are facing depletion of their groundwater supplies.

Karegnondi Water Authority (KWA) Fact Sheet

- KWA is incorporated by the State of Michigan, comprised of the City of Flint, City of Lapeer, Genesee County, Lapeer County, and Sanilac County.

- As specified in its Articles of Incorporation, each of these constituent municipalities has one representative to the board – specifically the Mayors or their designees of the 2 cities (Flint and Lapeer), the Drain Commissioners or their designees from each of the counties (Sanilac, Lapeer, and Genesee).

- KWA will deliver raw water to customer utilities.

- Each governmental unit will still own and operate their respective treatment and distribution systems. GCDC will have no jurisdiction over the City of Flint water. Flint will have all franchise rights for sale and treatment of water from KWA within the City of Flint.

- Each community that obligates itself to the debt for construction of the KWA infrastructure pipeline, intake and pump stations, receives commensurate voting membership to the board.

- Flint's debt obligation is based on the volume as selected by the city.

- Additional members are appointed by their respective communities.

- All board members serve without compensation.

- KWA will operate with 5 to 7 full-time equivalent employees. KWA will contract its labor force.

- To date, only the City of Flint and Genesee County have bought capacity in the project.

- Once KWA water is available, each community receiving untreated Lake Huron water from KWA will pay a share of the operating costs, i.e.: electricity, labor, maintenance, and chemicals in proportion to the volume of water they receive.

- KWA has created a capacity of 60 million gallons per day (mg).

- Flint has purchased 18.0 mgd. Genesee County has purchased 42 mgd. Each purchaser pays based on their purchased capacity. The total project cost will be divided by 60 (total capacity) and each purchaser, Flint and Genesee, will pay the same price per unit.

- The operation and maintenance cost will also be charged based upon the volume purchased annually.

- If a community exceeds capacity, it must either purchase or rent capacity from a community with excess.

- There exists a 30 day rolling average, which will determine if any community exceeds purchased capacity. Water volume purchased for capacity purposes will be calculated on the basis of a 30-day average.

- Capital costs for Flint will be a flat rate of approximately $6.8 million over 30 years.

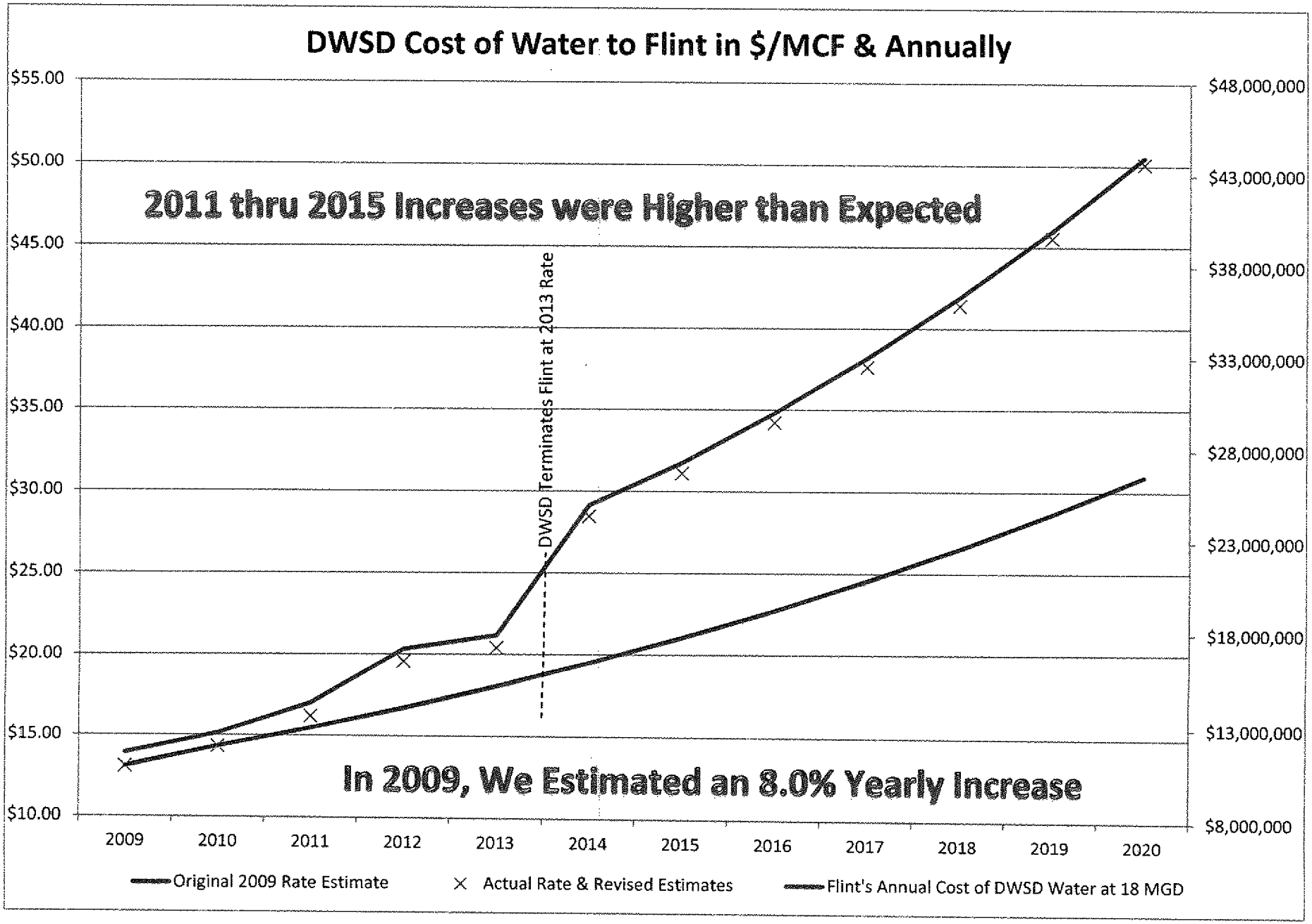
- To date, KWA is below its construction cost projection of $274 million.

- 90 percent of the KWA pipeline route is constructed along public right of ways.

- Any land required, that was outside the road right-of-way, was purchased from the original land owners, not a 3rd party short-term owner.

- All KWA construction contracts have been publically and competitively bid.

- No tax dollars, (Federal, State, or Local) are being used to fund this project. All project costs for KWA are being paid by the Flint and Genesee County water users.


DWSD Cost of Water to Flint in $/MCF & Annually
2011 thru 2015 Increases were Higher than Expected
DWSD Terminates Flint at 2013 Rate
In 2009, We Estimated an 8.0% Yearly Increase
$55.00
$50.00
$45.00
$40.00
$35.00
$30.00
$25.00
$20.00
$15.00
$10.00
$48,000,000
$43,000,000
$38,000,000
$33,000,000
$28,000,000
$23,000,000
$18,000,000
$13,000,000
$8,000,000
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
Original 2009 Rate Estimate
Actual Rate & Revised Estimates
Flint's Annual Cost of DWSD Water at 18 MGD

From: Muchmore, Dennis (GOV)
Sent: Monday, September 14, 2015 1:32 PM
To: Wurfel, Brad (DEQ); Pallone, Maggie (DEQ)
Subject: FW: PRESS RELEASE: Special Presentation to City Council on Water
Attachments: City Council Meeting Water Presentation 9.14.15.pdf

FYI. Is this your meeting?

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Monday, September 14, 2015 9:09 AM
Subject: PRESS RELEASE: Special Presentation to City Council on Water

For Immediate Release

Special Presentation to City Council on Water to be Included in City Council Meeting Agenda for Monday, September 14, 2015

Flint, Michigan – September 14, 2015 – The agenda for the regular City Council meeting scheduled for Monday, September 14, 2015 at 6:00pm will include a special presentation to update residents on water. The presentation will include the steps taken thus far to address the quality, safety and affordability of the water as well as upcoming plans to make improvements to the water system. This is a public meeting and residents are encouraged to attend.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI Cell)
jlorenz@cityofflint.com

Dayne Walling
Mayor

Natasha L. Henderson
City Administrator

Jason Lorenz
Public Information Officer
Office: (810) 237-2039
Cell: PPI
jlorenz@cityofflint.com

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–END–

From: Muchmore, Dennis (GOV)
Sent: Monday, September 14, 2015 1:33 PM
To: Hollins, Harvey (GOV)
Subject: FW: PRESS RELEASE: Special Presentation to City Council on Water
Attachments: City Council Meeting Water Presentation 9.14.15.pdf

Why would anyone participate in this one except for informational purposes?

From: Muchmore, Dennis (GOV)
Sent: Monday, September 14, 2015 1:32 PM
To: Wurfel, Brad (DEQ) <WurfelB@michigan.gov>; Pallone, Maggie (DEQ) <PalloneM@michigan.gov>
Subject: FW: PRESS RELEASE: Special Presentation to City Council on Water

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–END–

From: Muchmore, Dennis (GOV)
Sent: Tuesday, September 15, 2015 9:54 AM
To: Wyant, Dan (DEQ)
Cc: Wurfel, Brad (DEQ)
Subject: Response

Can you fill us in on your response?

DEQ
State DEQ to answer questions about Flint's water woes (Michigan Radio)
"The head of Michigan's Department of Environmental Quality plans to respond Monday to a demand for answers about Flint's water woes. Last week, State Sen. Jim Ananich, D-Flint, state Rep. Sheldon Neeley, D-Flint, and state Rep. Phil Phelps, D-Flushing, sent a letter to DEQ director Dan Wyant demanding answers to a list of questions about the safety and treatment of Flint's drinking water."

Message

From: Muchmore, Dennis (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=MUCHMORED]
Sent: 9/18/2015 1:56:23 PM
To: 'Jason Lorenz' [jlorenz@cityofflint.com]
Subject: RE: PRESS RELEASE: Mayor Dayne Walling to Visit Washington, D.C. for White House Welcome of Pope Francis

Is Dayne taking the request for money for water lines with him?

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Friday, September 18, 2015 8:01 AM
Subject: PRESS RELEASE: Mayor Dayne Walling to Visit Washington, D.C. for White House Welcome of Pope Francis

For Immediate Release

Mayor Dayne Walling to Visit Washington, D.C. to Join President and First Lady Obama for White House Welcome of Pope Francis

Flint, Michigan – September 18, 2015–Flint Mayor Dayne Walling will be travelling to our nation's capital to join a White House delegation welcoming Pope Francis to the White House during his trip to the United States. Pope Francis will arrive in Washington, D.C. on September 22 and will be greeted the following day during a ceremony hosted by President and First Lady Obama on the White House's South Lawn. Mayor Walling will be joined by City Attorney Pete Bade to represent Flint in a welcome delegation of officials and leaders from around the country.

"As a person of deep Christian faith and strong patriotism, there is no place in the world I would rather be that day than on the South Lawn of the White House with the President and First Lady to welcome the Pope. I am honored to be able to attend this once in a lifetime experience and represent our great City of Flint," said Walling. The Mayor is a long time, active member of the Court Street Methodist Church.

City Attorney Pete Bade, who will be the Mayor's guest to the ceremony, is a devout Catholic and a member of St. John Vianney Catholic Church in Flint. Bade says he feels honored and blessed to join Mayor Walling for this historic visit. "In the past two and half years, Pope Francis has captured the world's attention with his humility and constant message of compassion for the poor," said Bade.

The welcome ceremony for the Pope is the primary focus of the Mayor's trip to D.C., but while there he will also be meeting with federal representatives to discuss matters important to the City of Flint. Additional information on the Mayor's schedule during his trip will be made available on Monday, September 21. The Mayor and City Attorney's visit to Washington, D.C. is being paid for by each of them personally and will not cost the City of Flint in any way.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI (Cell)
jlorenz@cityofflint.com

From: Muchmore, Dennis (GOV)
Sent: Monday, September 21, 2015 11:35 AM
To: Andrew Leavitt
Subject: Re: PRESS RELEASE: Mayor Dayne Walling to Visit Washington, D.C. for White House Welcome of Pope Francis

Geez Andy, I just asked if he was going to ask the Prez for money....

Sent from my iPhone

On Sep 21, 2015, at 11:19 AM, Andrew Leavitt <ALeavitt@senate.michigan.gov> wrote:

> Tone def for sure but if we want to be snarky it was DEQ who allowed this water to flow and your emergency manager(s) who, by definition are supposed to be better at management than the city officials, who bungled every technical facet of management of this water system; from corrosion to TTHM to transparency. Failure from top to bottom.
>
> Whether this water is or is not technically within guidelines of EPA its clear by the DEQ letter that this is an incredible display of mismanagement and self preservation.

From: "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
Date: Friday, September 18, 2015 at 9:57 AM
To: Andy Leavitt <aleavitt@senate.michigan.gov>
Subject: FW: PRESS RELEASE: Mayor Dayne Walling to Visit Washington, D.C. for White House Welcome of Pope Francis

I assume Dayne's asking the President for money for water lines?

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Friday, September 18, 2015 8:01 AM
Subject: PRESS RELEASE: Mayor Dayne Walling to Visit Washington, D.C. for White House Welcome of Pope Francis

For Immediate Release

Mayor Dayne Walling to Visit Washington, D.C. to Join President and First Lady Obama for White House Welcome of Pope Francis

Flint, Michigan – September 18, 2015–Flint Mayor Dayne Walling will be travelling to our nation's capital to join a White House delegation welcoming Pope Francis to the White House during his trip to the United States. Pope Francis will arrive in Washington, D.C. on September 22 and will be greeted the following day during a ceremony hosted by President and First Lady Obama on the White House's South Lawn. Mayor Walling will be joined by City Attorney Pete Bade to represent Flint in a welcome delegation of officials and leaders from around the country.

"As a person of deep Christian faith and strong patriotism, there is no place in the world I would rather be that day than on the South Lawn of the White House with the President and First Lady to welcome the Pope. I am honored to be able to attend this once in a lifetime experience and represent our great City of Flint," said Walling. The Mayor is a long time, active member of the Court Street Methodist Church.

City Attorney Pete Bade, who will be the Mayor's guest to the ceremony, is a devout Catholic and a member of St. John Vianney Catholic Church in Flint. Bade says he feels honored and blessed to join Mayor Walling for this historic visit. "In the past two and half years, Pope Francis has captured the world's attention with his humility and constant message of compassion for the poor," said Bade.

The welcome ceremony for the Pope is the primary focus of the Mayor's trip to D.C., but while there he will also be meeting with federal representatives to discuss matters important to the City of Flint. Additional information on the Mayor's schedule during his trip will be made available on Monday, September 21. The Mayor and City Attorney's visit to Washington, D.C. is being paid for by each of them personally and will not cost the City of Flint in any way.

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-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI (Cell)
jlorenz@cityofflint.com

From: Muchmore, Dennis (GOV)
Sent: Monday, September 21, 2015 2:05 PM
To: Andrew Leavitt
Subject: Re: PRESS RELEASE: Mayor Dayne Walling to Visit Washington, D.C. for White House Welcome of Pope Francis

I'm familiar with that feeling.

> On Sep 21, 2015, at 12:29 PM, Andrew Leavitt <ALeavitt@senate.michigan.gov> wrote:
>
> Ha. Don't take it personal.
>
> I just had to get that off my chest. You seem to be only person willing to listen to me. It's lonely out here.
>
>
>
>
>
> Sent from my iPhone
>
>> On Sep 21, 2015, at 11:34 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:
>>
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>>
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>> On Sep 21, 2015, at 11:19 AM, Andrew Leavitt
<ALeavitt@senate.michigan.gov<mailto:ALeavitt@senate.michigan.gov>> wrote:
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>>
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>> From: "Muchmore, Dennis (GOV)" <muchmored@michigan.gov<mailto:muchmored@michigan.gov>>
>> Date: Friday, September 18, 2015 at 9:57 AM
>> To: Andy Leavitt <aleavitt@senate.michigan.gov<mailto:aleavitt@senate.michigan.gov>>
>> Subject: FW: PRESS RELEASE: Mayor Dayne Walling to Visit Washington, D.C. for White House Welcome of Pope Francis
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>>
>>
>>
>> –END–
>> -Jason Lorenz
>> Public Information Officer
>> City of Flint
>> (810) 237-2039 (Office)

PPI

>> jlorenz@cityofflint.com<mailto:jlorenz@cityofflint.com>

From: Muchmore, Dennis (GOV)
Sent: Tuesday, September 22, 2015 4:04 PM
To: Andy Leavitt (aleavitt@senate.michigan.gov)
Subject: FW: Flint Water

I thought you might be interested in this article from early 2013.

Flint City Council approves resolution to buy water from Karegnondi, state approval still needed
By Dominic Adams | dadams5@mlive.com
on March 25, 2013 at 10:45 PM, updated March 26, 2013 at 1:28 AM

FLINT, MI – Flint is one step closer to getting its water from Lake Huron as part of the Karegnondi Water Authority.

The vote, approved 7-1 at the Flint City Council meeting Monday, March 25, may have set in motion the end to Flint paying to get its water from Detroit.

Under the proposal, Flint would get 16 million gallons per day of raw water from Lake Huron, pipe it to Flint for treatment and then sell it to customers throughout the city. Another 2 million gallons per day would come from the Flint River and will be treated in Flint.

Mayor Dayne Walling said the Department of Environmental Quality must approve Flint's getting 2 million gallons per day from the Flint River.

Tuesday's meeting followed weeks of discussions and special meetings surrounding the resolution.

"We got there," Councilman Joshua Freeman said. "That's the important thing."

There were more than 50 people at Monday's meeting.

"Going with Karegnondi is the best decision. We have no opinion on the economics of the decision," said Rebecca Fedewa, Flint River Watershed Coalition executive director. "If we start drawing water out of the Flint River, we are at risk of having to start releasing water from our reservoirs."

Genesee County Drain Commissioner Jeff Wright said the decision must still be approved by a county water and waste advisory board. The KWA board will then be reconvened for final approval.

Wright said construction could start in May.

State treasury officials still must approve the city council's move because Flint has an emergency financial manager. All expenditures over $50,000 must be approved.

Genesee County Drain Commissioner Jeff Wright has said that Flint would pay roughly $6.4 million annually for water service if it joined the pipeline – a nearly $4 million savings on what it pays Detroit for water.

Walling previously said the city would save $19 million over eight years by getting water from the KWA.

"It's a historic night in the City of Flint," Walling said. "The savings will be less with the capacity level approved by city council because there will be increased treatment cost for the river water."

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Flint's water plant and the Flint River is currently the backup for Flint and Genesee County, however, the plant only operates four times per year.

Councilman Bryant Nolden was the lone dissenting vote.
"It was a protest vote," Nolden said. "I knew they had enough votes. I just feel like the Flint River is our best option."
Karengnondi is the regional water authority that includes Genesee, Lapeer and Sanilac counties and the cities of Flint and Lapeer.
Flint is the second municipality, behind Genesee County, to officially decide to purchase raw water through the KWA. Lapeer city officials said they intend to purchase water, but an agreement has been finalized.
Dominic Adams is a reporter for MLive-Flint Journal. Contact him at dadams5@mlive.com or 810-241-8803. Follow him on Twitter, Facebook or Google+.

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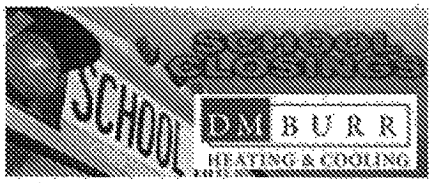
From: Muchmore, Dennis (GOV)
Sent: Tuesday, September 22, 2015 4:16 PM
To: Andy Leavitt (aleavitt@senate.michigan.gov)
Subject: FW: Independent Water Analysis - Flint
Attachments: Independent Water Analysis.PDF

Another old article so you have what I have.



Waste Water Flow Device

Hand Held Industrial Measurement With Clamp-On Sensors & Switches

ABC12 Investigates: What's in your water?

Posted: Jan 29, 2015 3:38 PM EST
Updated: Jan 29, 2015 11:54 PM EST

By Larry Elliott CONNECT

FLINT (WJRT) - (01/29/15) - The results are in and we now have a completely independent look at what's in Flint's water supply.

For months, since Flint switched from a Detroit water supply to the Flint River as it's water source, Flint water customers have complained of smelly, cloudy, bad tasting water and blame it for a variety of health problems.

Complaints exploded earlier this month when Flint notified its water customers that a group of chemicals known as TTHM were at much higher average levels than allowed by law.

With so many questions and distrust of the answers, ABC12's Larry Elliott investigates - What's in your Water?

It seems no matter who you ask in the Flint area, there's an opinion about the city's water. Most of the issues center on the quality of the water and whether it's safe to drink.

"Right now it smells," said Flint resident Lee Miller. "We're getting water out of our own back yard now and it's costing me double what it was coming from Detroit."

"It has a funny taste to it," said Flint resident Milton Alexander.

"It could be dangerous to us, actually I don't know how dangerous it is," said Flint resident Shanika Sanders.

"I'm no cheerleader for the water department here, I think we've got a lot of issues to work on," Ken VanWagoner, of Good Beans Cafe - Flint.

Most of the issues center on the quality of the water and whether it's safe to drink, but concern over its safety reached a new high earlier this month when the city was required by the state Department of Environmental Quality to notify residents that the water had exceeded the allowable limit of a group of chemicals known as TTHM.

TTHM is in most municipal water systems and is thought by some to be a possible carcinogen in long term exposure.

It's a byproduct of chlorination, which is commonly used to help purify water. Last August, as Flint's water treatment plant worked to purify the water it was drawing from the Flint River, levels of TTHM grew to well over the EPA allowed maximum.

August test results provided by the DEQ to ABC12 show all of the eight testing sites around Flint had TTHM levels well above the legal limit.

The lowest level among the eight sites was 40 percent above the legal limit. The highest was 145 percent

more than allowed.

DEQ rules only require the city to report higher than allowed levels to the public once a year, and only if the average of quarterly tests is higher than the legal limit.

That notification went out to residents on Jan. 5. Since then, many residents have refused to believe assurances from the DEQ and the city that the water is now safe to drink.

So, we set out to do complete and independent testing to find out for ourselves exactly what's in your water.

It took a bit of research, but we finally found Water Tech, in Howell, a testing lab with absolutely no ties to Flint, just to make sure there are no questions about the test results.

After having Water Tech train ABC12's Larry Elliott on the proper methods for collecting water samples, we set out last week to randomly test five sites in Flint.

1. Downtown.

"I'm excited to see this done because this is an independent way to find out that everything's just fine," VanWagoner said.

2. The north side.

"We'd like to do kind of a whole battery of tests of your water. Oh yeah," Alexander said.

3. The west side.

"It could be dangerous to us. How about if we help you find out what's in it right now?" Sanders said.

4. The east side.

"I'm hoping for a good test and put my family at ease," Miller said.

5. Our main studio, on the south side.

We also wanted to compare whatever we're to find with Detroit supplied water, so we took a sample from the Burton water system.

Since next year Flint will connect to the new KWA pipeline, getting its water from Lake Huron, we took a comparison sample from the Saginaw-Midland water system, which currently uses Lake Huron water.

We tested all the sites for levels of TTHM. We also tested how much residual chlorine was in the Flint and Burton water supply and more importantly, we tested at two of our Flint sites for a number of other hazardous chemicals that could cause skin or other health problems.

Tests for those other chemicals are not required for public water systems, but we decided to run those tests anyway.

Here's what our independent testing shows:

All sites tested, including the Saginaw-Midland water system and the Burton system, using Detroit water, contained TTHM - but all of them were well below the EPA allowed maximum.

Saginaw-Midland water had less than a third of the maximum TTHM allowed, the Burton system had only about 25 percent of the maximum and the highest level found of all of our Flint tests showed just over 65 percent of what's allowed, all below EPA limits.

A similar byproduct of chlorination, haloacetic acids, was also well below EPA maximums in Flint's water.

We tested Flint's north and east water samples for many other hazardous chemicals that a doctor told us could cause skin or other health problems, and on both tests, not a single one of those chemicals was detected.

Since most often any smell to the water would be caused by levels of total residual chlorine, we tested that too, in both our Flint and Burton samples.

The legal limit is 4 milligrams per liter. The average of our Flint samples shows a level of about a half milligram per liter. Our test in Burton actually shows 22 percent more residual chlorine than Flint.

Our Flint sample also showed no Coliform bacteria.

We asked Chris McCarthy, of Water Tech, a few questions.

Q: How would you describe these test results?

A: "Well, for the samples received, the tests we performed, everything is within EPA guidelines for safe drinking water."

Q: Is there anything in these results that raises a red flag for you?

A: "For water quality or water safety, No."

We then asked residents if these results change their opinion of what they'll do with their water now.

"To be honest, no," Alexander said.

"It will make me feel a lot more comfortable about bathing and brushing my teeth in it, but I'm still not going to drink it and I'm not gonna give it to my kids or my dog," Sanders said.

"It makes me feel a lot more safer, a lot more comfortable knowing that it's safe to drink now, you know. I'll tell you a load lifted off my shoulders. When the kids take baths, when my wife takes a shower, you know, I know now we're safe," Miller said.

So what about those who've stood before Flint City Council with jugs of discolored water?

While Genesee County Drain Commissioner Jeff Wright points out he has no jurisdiction over Flint's water system, he says in general, discolored water like this is nearly always the result of water main breaks or repairs, and Flint has more than its share because of its aging system.

Wright also says the KWA pipeline won't change that. It will take better management of repairs and money - lots of it - to replace Flint's aging water mains.

Unfortunately for the city of Flint, those very high levels of TTHM recorded last August in Flint water tests are still required by the DEQ to be included in the next report calculating average TTHM levels.

The next test will be done next week, and city Public Works Director Howard Croft tells ABC12, because of the high levels last August, the city will again be found in violation and will be required by the DEQ to send out another TTHM notice of violation to all Flint water customers in early March, even if all new tests show levels under the legal limit.

To view the TTHM testing results from the Michigan DEQ, click HERE.

To view the results of ABC12's water tests, click on the location you'd like to see results for below:

Flint Center

Flint North

Flint East

Flint South

Flint West

Burton

Saginaw-Midland

To view the Michigan DEQ results for South Flint, click HERE.

From: Muchmore, Dennis (GOV)
Sent: Tuesday, September 22, 2015 4:35 PM
To: 'Andrew Leavitt'
Subject: RE: Independent Water Analysis - Flint

Actually I don't think anyone is to blame, it's just a complicated situation that will not get much better until KWA is up and running. I'll see you tomorrow at 11:00. How about if I buy you lunch, someplace ritzy like Kewpees or Arts?

From: Andrew Leavitt [mailto:ALeavitt@senate.michigan.gov]
Sent: Tuesday, September 22, 2015 4:31 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: Re: Independent Water Analysis - Flint

Why don't just you and I meet tomorrow and spend an hour solving this issue? We can argue about who is to blame after we do everything we can to protect the infants and children in Flint. I am supposed to be in Flint all day but I could clear most of it and be here by 11am.

From: "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
Date: Tuesday, September 22, 2015 at 4:15 PM
To: Andy Leavitt <aleavitt@senate.michigan.gov>
Subject: FW: Independent Water Analysis - Flint

Another old article so you have what I have.

From: Muchmore, Dennis (GOV)
Sent: Tuesday, September 22, 2015 4:40 PM
To: 'Andrew Leavitt'
Subject: RE: Independent Water Analysis - Flint

Do you want to come over here first and then we'll go? That way if you get delayed you can just call and I'll sit in my office.

From: Andrew Leavitt [mailto:ALeavitt@senate.michigan.gov]
Sent: Tuesday, September 22, 2015 4:38 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: Re: Independent Water Analysis - Flint

Sounds perfect. Kewpees it is.

Thank you.

From: "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
Date: Tuesday, September 22, 2015 at 4:34 PM
To: Andy Leavitt <aleavitt@senate.michigan.gov>
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From: Muchmore, Dennis (GOV)
Sent: Tuesday, September 22, 2015 4:44 PM
To: 'Andrew Leavitt'
Subject: RE: Flint Water

Nothing specific in it except for the 7-1 vote and the Mayor's leadership. We just need to get these folks to the finish line on KWA. When we talk I'll fill you in on some of the old background that is both not public, and, not printable.

From: Andrew Leavitt [mailto:ALeavitt@senate.michigan.gov]
Sent: Tuesday, September 22, 2015 4:09 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: Re: Flint Water

Thanks I have been digging through clips as well. For clarity, what specifically should interest me?

Sent from my iPhone

On Sep 22, 2015, at 4:03 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> I thought you might be interested in this article from early 2013.
>
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> By Dominic Adams | dadams5@mlive.com
> on March 25, 2013 at 10:45 PM, updated March 26, 2013 at 1:28 AM
> FLINT, MI – Flint is one step closer to getting its water from Lake Huron as part of the Karegnondi Water Authority.
> The vote, approved 7-1 at the Flint City Council meeting Monday, March 25, may have set in motion the end to Flint paying to get its water from Detroit.
> Under the proposal, Flint would get 16 million gallons per day of raw water from Lake Huron, pipe it to Flint for treatment and then sell it to customers throughout the city. Another 2 million gallons per day would come from the Flint River and will be treated in Flint.
> Mayor Dayne Walling said the Department of Environmental Quality must approve Flint's getting 2 million gallons per day from the Flint River.
> Tuesday's meeting followed weeks of discussions and special meetings surrounding the resolution.
> "We got there," Councilman Joshua Freeman said. "That's the important thing."
> There were more than 50 people at Monday's meeting.
> "Going with Karegnondi is the best decision. We have no opinion on the economics of the decision," said Rebecca Fedewa, Flint River Watershed Coalition executive director. "If we start drawing water out of the Flint River, we are at risk of having to start releasing water from our reservoirs."
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Dominic Adams is a reporter for MLive-Flint Journal. Contact him at dadams5@mlive.com or 810-241-8803. Follow him on Twitter, Facebook or Google+.

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From: Muchmore, Dennis (GOV)
Sent: Wednesday, September 23, 2015 1:25 PM
To: 'Clement, Elizabeth (GOV)'
Subject: Andy Leavitt

Don’t forget to call andy about the supposed Flint chase and also talk about the DHHS and the controversy with lead based blood samples allegedly from water.

From: Muchmore, Dennis (GOV)
Sent: Tuesday, September 29, 2015 11:33 AM
To: Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: KWA

Can we call the Drain Commissioner immediately and encourage him to put a press on to complete KWA?

From: Muchmore, Dennis (GOV)
Sent: Wednesday, September 30, 2015 9:09 AM
To: Andy Leavitt (aleavitt@senate.michigan.gov)
Subject: Progress Michigan

I assume these jerks don't represent the Minority Leader but it would be nice to see a public denunciation of them from him. I'm sure they didn't volunteer any help to the Flint people or put any effort into alleviating the difficulties the city finds itself in since they never do anything positive.

From: Muchmore, Dennis (GOV)
Sent: Friday, October 02, 2015 9:13 AM
To: Dan Wyant
Subject: Fwd: follow up

FYI

Sent from my iPhone

Begin forwarded message:

> **From:** "Saxton, Thomas (Treasury)" <SaxtonT@michigan.gov>
> **Date:** October 1, 2015 at 8:25:53 PM EDT
> **To:** "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>, "Khouri, Nick (TREASURY)" <KhouriN@michigan.gov>
> **Cc:** "Workman, Wayne (TREASURY)" <WorkmanW@michigan.gov>, "Stanton, Terry A. (Treasury)" <StantonT@michigan.gov>
> **Subject: Fw: follow up**
>
> Dennis - in response to your earlier email; Wayne's guys came up with a ballpark estimate for reconnecting to DWSD. Let me emphasize 'ballpark'. They used your assumptions & they talked to Natasha H. after 5:00. Bottom line... the estimated cost is approx $10.5mm to reconnect until June '16.
>
> These numbers on their surface seem much improved over previous DWSD $offers. [Is Daddow in the loop on this ?] We need to give some more thought as to whether this is all inclusive. e.g., there might be some costs from turning down operations at the plant
>
> I am being told this can happen in a relatively short time i.e., less than a week. Which seems aggressive. Obviously that does not mean the lead concerns nor discolored water, etc goes away in a week. The pipe section they sold to the county won't be an impediment to this deal.
>
> There apparently are no 'upfront' costs we need to worry about. In theory, it seems like it can be paid over the 9-10 months (vs a lump sum). But I am not clear Dennis on those couple ideas/sources the Mayor & Senator mentioned i.e., at this point I am not sure where the $10.5mm comes from.
>
> My guess is we will keep refining this estimate. Let us know if you need anything else. Again, "credit " Wayne's guys for pulling this together quickly.

From: Cline, Richard (Treasury)
Sent: Thursday, October 1, 2015 6:08 PM
To: Saxton, Thomas (Treasury); Koryzno, Edward (Treasury); Byrne, Randall (Treasury)
Subject: RE: follow up

City's usage is 14 MGD/Day

Timeline is 9 months until June 2016

Fixed Cost is $662,100 for 9 months or $5,958,900

Commodity Rate is $501,383/month

Total Monthly Cost is $1,163,483

Cost until June 2016 is $10,471,347

The City does not know the cost to move the water plant into stand-by mode. However, they have indicated that there might be some reduced costs as lower chemical costs will be incurred.

Eric Cline | Department Manager | State of Michigan
Michigan Department of Treasury | Local Government Financial Services Division | Fiscal Responsibility Section
430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
Lansing Office (517) 335-2078 | Cell Phone PPI | Traverse City Office (231) 922-5228
E-mail cliner1@michigan.gov

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From: Saxton, Thomas (Treasury)
Sent: Thursday, October 01, 2015 6:01 PM
To: Cline, Richard (Treasury) <cliner1@michigan.gov>; Koryzno, Edward (Treasury) <KoryznoE@michigan.gov>; Byrne, Randall (Treasury) <ByrneR1@michigan.gov>
Subject: follow up
Importance: High

I am getting ready to leave… what have you learned ?

From: Muchmore, Dennis (GOV)
Sent: Friday, October 02, 2015 9:14 AM
To: Nick Lyon
Subject: Fwd: follow up

FYI

Sent from my iPhone

Begin forwarded message:

> **From:** "Saxton, Thomas (Treasury)" <SaxtonT@michigan.gov>
> **Date:** October 1, 2015 at 8:25:53 PM EDT
> **To:** "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>, "Khouri, Nick (TREASURY)" <KhouriN@michigan.gov>
> **Cc:** "Workman, Wayne (TREASURY)" <WorkmanW@michigan.gov>, "Stanton, Terry A. (Treasury)" <StantonT@michigan.gov>
> **Subject: Fw: follow up**
>
> Dennis - in response to your earlier email; Wayne's guys came up with a ballpark estimate for reconnecting to DWSD. Let me emphasize 'ballpark'. They used your assumptions & they talked to Natasha H. after 5:00. Bottom line... the estimated cost is approx $10.5mm to reconnect until June '16.
>
> These numbers on their surface seem much improved over previous DWSD $offers. [Is Daddow in the loop on this ?] We need to give some more thought as to whether this is all inclusive. e.g., there might be some costs from turning down operations at the plant
>
> I am being told this can happen in a relatively short time i.e., less than a week. Which seems aggressive. Obviously that does not mean the lead concerns nor discolored water, etc goes away in a week. The pipe section they sold to the county won't be an impediment to this deal.
>
> There apparently are no 'upfront' costs we need to worry about. In theory, it seems like it can be paid over the 9-10 months (vs a lump sum). But I am not clear Dennis on those couple ideas/sources the Mayor & Senator mentioned i.e., at this point I am not sure where the $10.5mm comes from.
>
> My guess is we will keep refining this estimate. Let us know if you need anything else. Again, "credit " Wayne's guys for pulling this together quickly.

From: Cline, Richard (Treasury)
Sent: Thursday, October 1, 2015 6:08 PM
To: Saxton, Thomas (Treasury); Koryzno, Edward (Treasury); Byrne, Randall (Treasury)
Subject: RE: follow up

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To: Cline, Richard (Treasury) <cliner1@michigan.gov>; Koryzno, Edward (Treasury) <KoryznoE@michigan.gov>; Byrne, Randall (Treasury) <ByrneR1@michigan.gov>
Subject: follow up
Importance: High

I am getting ready to leave… what have you learned ?

From: Muchmore, Dennis (GOV)
Sent: Friday, October 02, 2015 10:11 AM
To: Saxton, Thomas (Treasury)
Cc: Khouri, Nick (TREASURY); Workman, Wayne (TREASURY); Stanton, Terry A. (Treasury)
Subject: Re: follow up

I think that Bob Daddow, Rich Baird and Mike Duggan have something to do with the more "reasonable" approach. The Mayor in particular is very concerned about the issues of a fellow community and Daddow is perhaps the finest public administrator in the state. So, their involvement and Rich's management skills are powerful forces.

On Oct 1, 2015, at 8:25 PM, Saxton, Thomas (Treasury) <SaxtonT@michigan.gov> wrote:

> Dennis - in response to your earlier email; Wayne's guys came up with a ballpark estimate for reconnecting to DWSD. Let me emphasize 'ballpark'. They used your assumptions & they talked to Natasha H. after 5:00. Bottom line... the estimated cost is approx $10.5mm to reconnect until June '16.
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Sent: Thursday, October 1, 2015 6:08 PM
To: Saxton, Thomas (Treasury); Koryzno, Edward (Treasury); Byrne, Randall (Treasury)
Subject: RE: follow up

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Sent: Thursday, October 01, 2015 6:01 PM
To: Cline, Richard (Treasury) <cliner1@michigan.gov>; Koryzno, Edward (Treasury) <KoryznoE@michigan.gov>; Byrne, Randall (Treasury) <ByrneR1@michigan.gov>
Subject: follow up
Importance: High

I am getting ready to leave… what have you learned ?

From: Muchmore, Dennis (GOV)
Sent: Friday, October 02, 2015 10:40 AM
To: Steudle, Kirk (MDOT)
Cc: Lyon, Nick (DHHS); Wyant, Dan (DEQ)
Subject: Re: info concerning expediting KWA construction

It's the wish list from the county so don't hesitate to dismiss some of it.

On Oct 2, 2015, at 10:16 AM, Steudle, Kirk (MDOT) <SteudleK@michigan.gov> wrote:

> Yep. Sure will.
> I have some questions and concerns for sure.
>
> Kirk
>
> Sent from my iPhone
>
> On Oct 2, 2015, at 9:41 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:
>
> > Kirk could you review and talk with Dan and Nick directly.
> >
> > Begin forwarded message:
> >
> > **From:** Andrew Leavitt <Aleavitt@senate.michigan.gov>
> > **Date:** October 1, 2015 at 5:34:26 PM EDT
> > **To:** "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
> > **Subject: FW: info concerning expediting KWA construction**
> >
> > From Jeff Wright's staff.
> >
> > ---
> >
> > **From:** Karen Teeples <K_TEEPLES@gcdcwws.com>
> > **Date:** Thursday, October 1, 2015 at 2:42 PM
> > **To:** Andy Leavitt <aleavitt@senate.michigan.gov>
> > **Subject:** info concerning expediting KWA construction
> >
> > <bulletpoints-Oct2015-KWAconstruct.docx>

From: Muchmore, Dennis (GOV)
Sent: Wednesday, October 07, 2015 10:55 AM
To: Rep. Sheldon Neeley (District 34)
Subject: Re: Testing Children

Thanks Sheldon, your suggestion is under consideration by DHHS, and Nick and his team as well as us are all vitally concerned. Hoping to continue to work with you on solutions to this and other very important problems. High level lead exposure is just not acceptable for anyone but in particular young children and pregnant women. We just have to keep fighting to get solutions in place.

Sent from my iPhone

On Oct 7, 2015, at 10:37 AM, Rep. Sheldon Neeley (District 34) <SheldonNeeley@house.mi.gov> wrote:

> Please see the attached letter. Thank you
>
> Sheldon
>
> <Rep Neeley - Wells Letter.pdf>

From: Muchmore, Dennis (GOV)
Sent: Wednesday, October 07, 2015 11:11 AM
To: Workman, Wayne (TREASURY); Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Wurfel, Sara (GOV); Wurfel, Brad (DEQ)
Subject: RE: How The Flint Water Crisis Emerged

I noted in one of the slides that the council voted 7-1 to move back to DWSD and Jerry is quoted as not being in favor of it. I think they left out his reasoning for that and that would have been nice.

From: Workman, Wayne (TREASURY)
Sent: Wednesday, October 7, 2015 10:40 AM
To: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>
Subject: FW: How The Flint Water Crisis Emerged

Finally M Live recognizes that DWSD kicked Flint off the system.

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Widigan, Robert (TREASURY)
Sent: Wednesday, October 07, 2015 10:32 AM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Koryzno, Edward (Treasury) <KoryznoE@michigan.gov>
Cc: Schafer, Suzanne K. (Treasury) <SchaferS7@michigan.gov>
Subject: FW: How The Flint Water Crisis Emerged

This article gives a very detailed and accurate timeline from when the city decided to stop buying water from DWSD to today.

-Rob

From: Widigan, Robert (TREASURY)
Sent: Wednesday, October 07, 2015 10:29 AM
To: Schafer, Suzanne K. (Treasury) <SchaferS7@michigan.gov>; Byrne, Randall (Treasury) <ByrneR1@michigan.gov>; Cline, Richard (Treasury) <cliner1@michigan.gov>
Subject: How The Flint Water Crisis Emerged

The second slide identifies that Detroit terminated the contract with the city:
http://www.mlive.com/news/flint/index.ssf/2015/10/how_the_flint_water_crisis_eme.html#2

Robert Widigan
Local Government Financial Services Division
Michigan Department of Treasury
Office (517) 373-3227 Cell (PPI

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 08, 2015 1:56 PM
To: Saxton, Thomas (Treasury); Duncan, Nancy (DTMB)
Cc: Workman, Wayne (TREASURY); Khouri, Nick (TREASURY); Wyant, Dan (DEQ); Baird, Richard (GOV); Roberts, John (DTMB); Hollins, Harvey (GOV)
Subject: RE: letter from John O'Brien

Don't disagree but we're too far along now to change numbers. So, we'll use the $12M and as the year progresses we'll track it.

From: Saxton, Thomas (Treasury)
Sent: Thursday, October 8, 2015 1:17 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Duncan, Nancy (DTMB) <duncann1@michigan.gov>
Cc: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Khouri, Nick (TREASURY) <KhouriN@michigan.gov>; Wyant, Dan (DEQ) <WyantD@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>; Roberts, John (DTMB) <RobertsJ9@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Subject: RE: letter from John O'Brien

I agree with Dennis… Consistent with what I think we (Wayne & I) said at the DEQ meeting yesterday… the county drain commission has more knowledge & experience running a water system than we (Treasury) do. That is why we were trying to get some outside verification. We were not able to get an outside engineering firm engaged due to the timeframe. Our fallback was Jeff Wright – the drain commissioner. He calculated $13.2mm. We did a 'back of the envelope' analysis of $10.5mm late last week. That was based off an email we rec'd from Dennis that summarized the DWSD/City proposal. We were not a part of the $12mm calculation that is in the 'public' realm now. I believe that was a result of a meeting DEQ/Dan had with the City earlier this week.
John indicated yesterday he would recommend/prefer to err on the side of caution for the amount requested from the legislature. Plus, keep in mind whatever number you choose assumes completion of KWA in June. If the project slips a month (& it very well could given it is a major capital project) the cost of the reconnect is going to go up a $1mm+ per month.
If it is possible I would recommend using the $13.2mm (hoping the project will be done as scheduled) given the county is in the best position to make that estimate. We don't have any info that would contradict that number.

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 08, 2015 1:13 PM
To: Duncan, Nancy (DTMB) <duncann1@michigan.gov>
Cc: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Khouri, Nick (TREASURY) <KhouriN@michigan.gov>; Wyant, Dan (DEQ) <WyantD@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>; Roberts, John (DTMB) <RobertsJ9@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Subject: Re: letter from John O'Brien

I would say we need to add the $1.2 difference from somewhere. I suggest we hold on to the idea of the bottle deposit escrow as we can easily take $1m droit if need t.

Sent from my iPhone

On Oct 8, 2015, at 10:39 AM, Duncan, Nancy (DTMB) <duncann1@michigan.gov> wrote:

We're still carrying $12m as the cost to reconnect, and that's the number the Governor is using too. John would like your assessment of the need given the information in this letter. We plan to send a supplemental request to the Legislature for our $6m share this afternoon.

From: Saxton, Thomas (Treasury)
Sent: Wednesday, October 07, 2015 2:43 PM
To: Wyant, Dan (DEQ); Sygo, Jim (DEQ); Muchmore, Dennis (GOV); Roberts, John (DTMB); Baird, Richard (GOV); Lyon, Nick (DHHS); Hollins, Harvey (GOV)
Cc: Workman, Wayne (TREASURY); Khouri, Nick (TREASURY); Duncan, Nancy (DTMB)
Subject: FW: letter from John O'Brien
Importance: High

Here is the letter from the Genesee Co Drain Commission. My interpretation of the contents would be their estimate is $13.2mm (vs the $12mm discussed this morning).

They included their contract with the City. Sec 5.7 references prevailing rates the City would be charged; that is different than the rates reflected in the $13.2mm. So that contract may need to be modified.

They also raise some other items (under *Procedure to Activate Supply* – p.3) that may have cost implications.

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 13, 2015 8:40 AM
To: Wyant, Dan (DEQ); Lyon, Nick (DHHS); Khouri, Nick (TREASURY)
Subject: What's the latest on Flint?

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 13, 2015 8:41 AM
To: Hollins, Harvey (GOV)
Subject: What's the latest on Flint?

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 13, 2015 9:07 AM
To: Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Flint

Not Responsive Of course, I have a lot of complaints about myself and this Flint thing. If I had acted more quickly on some of my minister's complaints we at least would have had a more robust discussion. Do we have a copy of the Veolia conclusions somewhere?

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 13, 2015 9:26 AM
To: Kevin K. Kilby
Cc: Workman, Wayne (TREASURY); Wyant, Dan (DEQ); John O'Brien; David Jansen
Subject: Re: Letter to Wolfson October 12 final

Thank you. It doesn't surprise me that we have another hurdle in all of this. I appreciate your acknowledgement that GCDC will do everything in its power to help the people of Flint in this effort to reconnect to DWSD. Our first objective is to restore the health of the people, then their trust, and of course these objectives are partially accomplished through the reconnect and the efforts of your client.

On Oct 12, 2015, at 1:16 PM, Kevin K. Kilby <kkilby@mcgrawmorris.com> wrote:

> Gentleman –
>
> I represent the Genesee County Drain Commissioner's Office. The Commissioner requested that I send you the attached information regarding DWSD supplying water to Flint.
>
> Sincerely,
>
> Kevin Kilby
> Partner and Attorney at Law
> McGraw Morris P.C
> 2075 W. Big Beaver Road
> Suite 750
> Troy, Michigan 48084
> Office: (248) 502-4000
> Fax: (248) 502-4001
> Cellular: PPI
> kkilby@mcgrawmorris.com
> www.mcgrawmorris.com

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<Letter to Wolfson October 12 final.pdf>

<Request From Flint.pdf>

<Letter to Wolfson Final.pdf>

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 13, 2015 12:13 PM
To: Wurfel, Brad (DEQ)
Cc: Busch, Stephen (DEQ); Shekter Smith, Liane (DEQ); Krisztian, George (DEQ); Saxton, Thomas (Treasury); Howard Croft (hcroft@cityofflint.com); Lasher, Geralyn (DHHS)
Subject: Re: flint water

Be aware that the GCDC hasn't reached an agreement with GLWA to reconnect their transmission pipes. Lawyers are still talking.

Sent from my iPhone

On Oct 13, 2015, at 11:59 AM, Wurfel, Brad (DEQ) <WurfelB@michigan.gov> wrote:

> **Steve**, what's our role here and do we have an update to offer?
> **Howard**, wanted you looped into this request if you've got anything to add.
> **Tom**, heads up Fonger may be headed your way.
> **Geralyn**, same FYI.
> b
>
> ---
>
> **From:** Ronald Fonger [mailto:RFONGER1@mlive.com]
> **Sent:** Tuesday, October 13, 2015 9:50 AM
> **To:** Wurfel, Brad (DEQ)
> **Subject:** flint water
>
> Hey Brad:
> Where is the DEQ at with approving Flint's activation of the sections of Flint and Genesee County transmission pipe? Howard Croft said yesterday that the city's line is disinfected and ready.
> Also, I made a note to expect the corrosion control plan this week. Any word on that?
> Thanks,
>
> **Ron Fonger**
> MLive Media Group
> Reporter
>
> **PPI**
> email rfonger1@mlive.com
> address 540 S. Saginaw St. #101, Flint MI 48502

From: Muchmore, Dennis (GOV)
Sent: Wednesday, October 14, 2015 9:36 AM
To: Saxton, Thomas (Treasury)
Subject: Re: What's the latest on Flint?

ok

On Oct 14, 2015, at 8:12 AM, Saxton, Thomas (Treasury) <SaxtonT@michigan.gov> wrote:

> Sorry I didn't get back to you yesterday… you want the City in general [right?] vs the water system. Anyway we are pulling together some bullets on the former.
>
> ---
>
> **From:** Muchmore, Dennis (GOV)
> **Sent:** Tuesday, October 13, 2015 8:42 AM
> **To:** Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>
> **Subject:** What's the latest on Flint?
>
> Tom-
> Where do they stand now on shortfalls, budget and costs of transition?

From: Muchmore, Dennis (GOV)
Sent: Wednesday, October 14, 2015 12:10 PM
To: Saxton, Thomas (Treasury)
Cc: Wyant, Dan (DEQ); Roberts, John (DTMB); Workman, Wayne (TREASURY); Baird, Richard (GOV); Khouri, Nick (TREASURY)
Subject: Re: Flint telephone call this morning

Yes, please go ahead. The faster the reconnect occurs the more quickly confidence will be rebuilt.

On Oct 14, 2015, at 10:39 AM, Saxton, Thomas (Treasury) <SaxtonT@michigan.gov> wrote:

> I assume we tell them to proceed? I am not aware of the timing on legislative action. The payt to DWSD will ultimately be paid out over time (e.g, say Nov thru June).
>
> ---
>
> **From:** Byrne, Randall (Treasury)
> **Sent:** Wednesday, October 14, 2015 10:21 AM
> **To:** Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>
> **Cc:** Schafer, Suzanne K. (Treasury) <SchaferS7@michigan.gov>
> **Subject:** Flint telephone call this morning
>
> Tom and Wayne:
>
> During our telephone call today, Mayor Walling indicated that they have received the go ahead from the Drain Commissioner and are performing the bacti tests on the eight mile waterline. If all goes well, they may be able to begin to use DWSD water soon. The Mayor wanted to know if they can use DWSD water before the Legislature takes action on the $6M assistance package? Please advise.
>
> Thanks,
> Randy
>
> <image001.jpg>
> Randall Byrne | State Administrative Manager
> Local Government Services - Office of Fiscal Responsibility
> State of Michigan | 430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
> (517) 335-2521 | (517) 373-0633 (fax) | ByrneR1@michigan.gov
>
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From: Muchmore, Dennis (GOV)
Sent: Wednesday, October 14, 2015 4:06 PM
To: Hollins, Harvey (GOV)
Subject: RE: What's the latest on Flint?

Have you talked with Sheldon recently?

From: Hollins, Harvey (GOV)
Sent: Tuesday, October 13, 2015 3:44 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: RE: What's the latest on Flint?

Not much more than what's in the news. I made a couple of

- City Council voted to approve their $2 million to use GLWA
- People are still upset, believing that DEQ is covering up their mistake.
- Most elected officials are pointing fingers at the state.
- Bottled water delivery has slowed a tad.
- Various groups are still delivering water filters, a big filter distribution occurred over the weekend.
- Mayor Walling and his challenger Weaver are debating tonight.

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 13, 2015 8:41 AM
To: Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Subject: What's the latest on Flint?

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 15, 2015 10:42 AM
To: Hollins, Harvey (GOV)
Subject: RE: What's the latest on Flint?

I've met with both of them once, and I've talked with Ananich more than once on the phone because he called me. You've talked to him multiple times, and you're the lead. Don't know what he wants since he's getting to talk with you over and over. By the way, did our ministers call you and say "thank you Harvey, we couldn't get anyone else to listen to us and you did"?

From: Hollins, Harvey (GOV)
Sent: Wednesday, October 14, 2015 10:22 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: Re: What's the latest on Flint?

Sheldon wants to be pulled in the same way that you pulled Ananich in.

Best,
Harvey

On Oct 14, 2015, at 4:06 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> Have you talked with Sheldon recently?
>
> ---
>
> **From:** Hollins, Harvey (GOV)
> **Sent:** Tuesday, October 13, 2015 3:44 PM
> **To:** Muchmore, Dennis (GOV) <muchmored@michigan.gov>
> **Subject:** RE: What's the latest on Flint?
>
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>
> **From:** Muchmore, Dennis (GOV)
> **Sent:** Tuesday, October 13, 2015 8:41 AM
> **To:** Hollins, Harvey (GOV) <hollinsh@michigan.gov>
> **Subject:** What's the latest on Flint?

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 15, 2015 11:24 AM
To: 'Dayne Walling'; Workman, Wayne (TREASURY)
Cc: Natasha Henderson
Subject: RE: Contract for Water

Thanks Dayne, I'll get with Wayne.

From: Dayne Walling [mailto:dwalling@cityofflint.com]
Sent: Thursday, October 15, 2015 11:02 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Cc: Natasha Henderson <nhenderson@cityofflint.com>
Subject: Contract for Water

Gentlemen, I have asked City Administrator Natasha Henderson to reach out to you at Treasury Wayne about the contract for Detoit water. The Mott Foundation has questions about payments and ensuring all parties are contributing to the monthly costs as well as how an escrow fund would work to ensure funds are solely for this purpose. Time is of the essence as you know and the City is prepared to do all things necessary for the water to begin flowing as quickly as possible as we have agreed. Thanks for your tremendous efforts on this and we look forward to finalizing the agreements hopefully today or tomorrow.

--

Dayne Walling
Mayor, City of Flint
City Hall, 1101 S. Saginaw St.
Flint, MI 48502
810-766-7346
mayor@cityofflint.com
www.cityofflint.com
follow me on twitter at http://twitter.com/mayorwalling

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 15, 2015 11:25 AM
To: Workman, Wayne (TREASURY)
Subject: FW: Contract for Water

Are you handling all this?

From: Dayne Walling [mailto:dwalling@cityofflint.com]
Sent: Thursday, October 15, 2015 11:02 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Cc: Natasha Henderson <nhenderson@cityofflint.com>
Subject: Contract for Water

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From: Muchmore, Dennis (GOV)
Sent: Thursday, October 15, 2015 11:25 AM
To: Hollins, Harvey (GOV); Wyant, Dan (DEQ); Lyon, Nick (DHHS)
Subject: FW: Contract for Water

fyi

From: Dayne Walling [mailto:dwalling@cityofflint.com]
Sent: Thursday, October 15, 2015 11:02 AM
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From: Muchmore, Dennis (GOV)
Sent: Thursday, October 15, 2015 11:29 AM
To: 'senatorjananich@senate.michigan.gov'; 'Rep. Sheldon Neeley (District 34)'
Cc: Andy Leavitt (aleavitt@senate.michigan.gov)
Subject: FW: PRESS RELEASE: RTAB Approves Resolution for the Use of $2 Million in Fund Balance to Reconnect to Detroit Water
Attachments: RTAB Approves $2million.pdf

I know you've seen this but I wanted to make sure.

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Wednesday, October 14, 2015 6:19 PM
Subject: PRESS RELEASE: RTAB Approves Resolution for the Use of $2 Million in Fund Balance to Reconnect to Detroit Water

For Immediate Release

RTAB Approves Resolution for the Use of $2 Million in Fund Balance to Reconnect to Detroit Water

Flint, Michigan – October 14, 2015 – The City of Flint's Receivership Transition Advisory Board has today approved a resolution that directs $2 Million in fund balance from the Water and Sewer funds be used to fund Flint's portion of the reconnection to Detroit as the City's water source. The Board voted unanimously to approve the measure which will compliment commitments by Governor Snyder in the amount of $6 million and the Charles Stewart Mott Foundation in the amount of $4 million, respectively, for a total reconnection cost of $12 million.

"Flint is one step closer to switching back to Detroit water with the board's approval," said Mayor Dayne Walling. "Now we need approval from the state treasurer and support from the state legislature and I urge them to act immediately." Approval from the legislature is required to finalize the negotiations with the Great Lakes Water Authority, formerly Detroit Water and Sewerage (DWSD). Once the contract between the Authority, Genesse County and the City are complete, Flint can once again begin receiving treated Lake Huron water from Detroit.

–END–

-Jason Lorenz
Public Information Officer
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(810) 237-2039 (Office)
PPI (Cell)
jlorenz@cityofflint.com

Dayne Walling
Mayor

Natasha L. Henderson
City Administrator

Jason Lorenz
Public Information Officer
Office: (810) 237-2039
Cell: PPI
jlorenz@cityofflint.com

For Immediate Release

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–END–

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 15, 2015 5:58 PM
To: Hollins, Harvey (GOV)
Subject: RE: What's the latest on Flint?

I got so I believed that the only people that were telling you and I the truth were these ministers. It was Overton, Harris and who were the other ones?

From: Hollins, Harvey (GOV)
Sent: Thursday, October 15, 2015 4:36 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: Re: What's the latest on Flint?

The ministers did call and said thank you to both you and me.

Best,
Harvey

On Oct 15, 2015, at 10:42 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> I've met with both of them once, and I've talked with Ananich more than once on the phone because he called me. You've talked to him multiple times, and you're the lead. Don't know what he wants since he's getting to talk with you over and over. By the way, did our ministers call you and say "thank you Harvey, we couldn't get anyone else to listen to us and you did"?
>
> ---
>
> **From:** Hollins, Harvey (GOV)
> **Sent:** Wednesday, October 14, 2015 10:22 PM
> **To:** Muchmore, Dennis (GOV) <muchmored@michigan.gov>
> **Subject:** Re: What's the latest on Flint?
>
> Sheldon wants to be pulled in the same way that you pulled Ananich in.
>
> Best,
> Harvey
>
> On Oct 14, 2015, at 4:06 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:
>
> > Have you talked with Sheldon recently?
> >
> > ---
> >
> > **From:** Hollins, Harvey (GOV)
> > **Sent:** Tuesday, October 13, 2015 3:44 PM
> > **To:** Muchmore, Dennis (GOV) <muchmored@michigan.gov>
> > **Subject:** RE: What's the latest on Flint?
> >
> > Not much more than what's in the news. I made a couple of
> >
> > - City Council voted to approve their $2 million to use GLWA
> > - People are still upset, believing that DEQ is covering up their mistake.

- Most elected officials are pointing fingers at the state.
- Bottled water delivery has slowed a tad.
- Various groups are still delivering water filters, a big filter distribution occurred over the weekend.
- Mayor Walling and his challenger Weaver are debating tonight.

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 13, 2015 8:41 AM
To: Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Subject: What's the latest on Flint?

From: Muchmore, Dennis (GOV)
Sent: Friday, October 16, 2015 4:31 PM
To: 'Rep. Sheldon Neeley (District 34)'
Subject: FW: PRESS RELEASE: City of Flint Reconnects to Detroit Water
Attachments: CoF.DWSD.Agreement.2015.pdf

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Friday, October 16, 2015 4:09 PM
Subject: PRESS RELEASE: City of Flint Reconnects to Detroit Water

For Immediate Release

City of Flint Reconnects to Detroit Water

Flint, Michigan – October 16, 2015 – Flint has reconnected to Detroit water. reached an agreement with the Detroit Water and Sewerage Department (DWSD) for the temporary provision of treated Lake Huron water to Flint. Work to establish the reconnection will begin immediately in a coordinated effort between the City of Flint, Genesee County and the DWSD.

A tremendous effort by all three partners, along with the efforts of the Governor and the State Legislature, ensured that this action occurred as quickly as possible. "The money from the state to begin fixing Flint water by reconnecting to Detroit is just a start – a down payment,´ said Mayor Dayne Walling. "I am not going to stop until every drop of drinking water in Flint is 100% safe."

Detroit water will be introduced into the Flint system throughout the evening. It is expected that the thorough replacement from Flint River water to Detroit water will happen after approximately three weeks. Residents in Flint may see discoloration as well as noticing some taste and odor issues during the transition.

Water provided by DWSD will contain corrosion control agents to hinder the leaching of lead from old pipes into the water; however, the City will also be adding additional corrosion control agents to further minimize the risk presented by lead pipes.

The contract between the City and DWSD calls for the provision of 12.5 million gallons per day (mgd) of treated water from Lake Huron at a cost of $1.1 million per month. DWSD Director Sue McCormick noted that the talks between Flint, DWSD and the GLWA Board were very cordial: "everyone acted in a spirt of cooperation in order to come to this agreement." Flint will purchase water from Detroit until the Karegnondi Water Authority (KWA) pipeline can be completed in 2016. At that time, the KWA will become the primary water source for the City and the Flint River will remain as a backup system.

Residents with questions or concerns about the hydrant flushing in their area can call the Water Service Center at 810-766-7202. Continuing information on water will be provided via the City of Flint's website, cityofflint.com.

–END–

-Jason Lorenz
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–CONTINUE–

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Natasha L. Henderson
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–END–

From: Muchmore, Dennis (GOV)
Sent: Friday, October 16, 2015 4:32 PM
To: Jim Ananich (jananich@att.net); Andy Leavitt (aleavitt@senate.michigan.gov)
Subject: FW: PRESS RELEASE: City of Flint Reconnects to Detroit Water
Attachments: CoF.DWSD.Agreement.2015.pdf

FYI

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Friday, October 16, 2015 4:09 PM
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–END–

From: Muchmore, Dennis (GOV)
Sent: Monday, October 19, 2015 4:24 PM
To: Andy Leavitt (aleavitt@senate.michigan.gov)
Subject: FW: PRESS RELEASE: Mayor Dayne Walling Response to MDEQ's Admission of Fault in Flint's Water Emergency
Attachments: Mayor Response to MDEQ Statement 10.19.15.pdf

Walling doesn't really want to go down this path does he?

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Monday, October 19, 2015 4:11 PM
Subject: PRESS RELEASE: Mayor Dayne Walling Response to MDEQ's Admission of Fault in Flint's Water Emergency

For Immediate Release

Mayor Dayne Walling Response to MDEQ's Admission of Fault in Flint's Water Emergency

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Today, the Michigan Department of Environmental Quality (MDEQ) acknowledges its leading role in the decision-making that led to the contamination of Flint's drinking water. The people of Flint hear this admission and we demand that the State fully fix this problem they caused. While the State taking responsibility and the switch to Detroit water are steps in the right direction for Flint, actions speak louder than words. Now, the Governor and the State need to provide tens of millions of dollars to fix Flint's water and infrastructure as well as to provide for the families, children and schools affected. I will continue to push for changes and advocate for our City until every drop of water is 100% safe.

The MDEQ assured Flint that the switch was being handled safely and responsibly. We relied on the information from MDEQ, and clearly that information was wrong. My heart goes out to the children and families who are affected by this issue.

This morning our local Senator Jim Ananich said the following: "We do not know whether the misapplication of federal rules was intentional or due to negligence. That's why the Legislature needs to have a robust role in any investigation, and in ensuring those responsible for Flint's water crisis are

held accountable." I applaud Senator Ananich's Statement and I urge the Governor and State Officials to take the necessary steps to ensure accountability so that this never happens again to any community.

–END–

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–END–

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 20, 2015 9:50 AM
To: Wyant, Dan (DEQ)
Subject: Keep your chin up…

…tough sledding on this one, but you've done as much as you can. Darnell Early wants to respond in kind to his Flint detractors and I think we should consider it.

From: Muchmore, Dennis (GOV)
Sent: Wednesday, October 21, 2015 12:50 PM
To: Andrew Leavitt
Subject: Re: 10.21.15-Ananich-Letter-LevinAppointment-FINAL.pdf

Hi Andy, sure we can talk more. We thought if we put the pediatrician from Hurley on it would be better optics wise.

> On Oct 21, 2015, at 12:12 PM, Andrew Leavitt <ALeavitt@senate.michigan.gov> wrote:
>
> Hi Dennis,
>
> Jim spoke with Senator Levin. I think it is worth us talking about. Do you have time to chat today?
>
>
>
>> On 10/21/15, 10:42 AM, "Andrew Leavitt" <ALeavitt@senate.michigan.gov> wrote:
>>
>> Good Morning Gentlemen,
>>
>> Jim has placed a call to Senator Levin asking him if he would be interested in serving in some capacity on the Flint water review but they have not connected. To be fair to the Governor he wanted to make him aware that he would like Senator Levin to have a role in the process.
>>
>> Thanks,
>>
>> Andy
>>

From: Muchmore, Dennis (GOV)
Sent: Wednesday, October 21, 2015 1:27 PM
To: Andrew Leavitt
Subject: Re: 10.21.15-Ananich-Letter-LevinAppointment-FINAL.pdf

They're ready to announce the work group so I'll pitch to add Carl as a recommendation from Jim.

> On Oct 21, 2015, at 1:08 PM, Andrew Leavitt <ALeavitt@senate.michigan.gov> wrote:
>
> Let me know what time works. They should certainly be involved but I think for our community to feel respected and restore trust it will take someone like Senator Levin. He has longstanding relationships with the community and is trusted.
>
>
>
>
>> On 10/21/15, 12:50 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:
>>
>> Hi Andy, sure we can talk more. We thought if we put the pediatrician from Hurley on it would be better optics wise.
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>>>>
>>>> Thanks,
>>>>
>>>> Andy
>>>>

From: Muchmore, Dennis (GOV)
Sent: Wednesday, October 21, 2015 5:47 PM
To: Andrew Leavitt
Subject: Re: Dr. Reynolds

I made the request as a regular member

Sent from my iPhone

> On Oct 21, 2015, at 3:45 PM, Andrew Leavitt <ALeavitt@senate.michigan.gov> wrote:
>
> Larry is awesome but he admittedly is not the person to thoroughly review employee policies within a department? How a culture got so bad in the City of Flint and DEQ's water departments that no one thought they should step up and try and stop this. This is as much HR and bureaucracy knowledge as it is lead issues.
>
> I think we see this as two parts.
>
> One being policy, which Sikkema/Kolb et al will do great at.
>
> Two being oversight, ensuring all the bad actors from state and local government are held accountable and that the people of Flint get the answers they are so desperately are searching for.
>
> We believe this group lacks the ability in the latter department. That's why Levin doing something would be tremendous. He seemed generally interested.
>
>
>
>> On 10/21/15, 3:35 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:
>>
>> The ex-officio was just an idea from me because the commission had already been impaneled. I'll suggest other alternatives. I actually liked the idea because it would give him some flexibility time wise. Dr. Reynolds is very solid and lives in Flint so I think he's a great choice.
>>
>> Sent from my iPhone
>>
>> On Oct 21, 2015, at 3:05 PM, Andrew Leavitt
<ALeavitt@senate.michigan.gov<mailto:ALeavitt@senate.michigan.gov>> wrote:
>>
>> Dennis you and I both know Carl deserves more respect than to be an ex-officio to this group. He could have done this right.
>>
>>
>>
>> From: "Muchmore, Dennis (GOV)"
>> Date: Wednesday, October 21, 2015 at 3:03 PM
>> To: "Jim Ananich (jananich@att.net<mailto:jananich@att.net>)", Andrew Leavitt
>> Subject: Dr. Reynolds
>>

>> I have recommended Carl be added to the Commission. Since they won't really be a voting body I suggested he be added as an ex-officio member. Here is the rec for the Hurley person.
>> Dr. Lawrence Reynolds from Flint to join our After Action team.
>> He's been a long time pediatrician in Flint. Well respected in the community.
>> He was affiliated with Mott Children Health Center for several years, but is listed as affiliated with Hurley now.
>> His background looks excellent.
>>
>>
>>

From: Muchmore, Dennis (GOV)
Sent: Thursday, October 22, 2015 4:30 PM
To: 'Saxton, Thomas (Treasury)'
Subject: RE: Wire Transfer Information

I thought they had upfronted the money to DWSD but this remittance is to DWSD from SoM?

From: Saxton, Thomas (Treasury)
Sent: Thursday, October 22, 2015 3:46 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Khouri, Nick (TREASURY) <KhouriN@michigan.gov>
Cc: Sygo, Jim (DEQ) <SygoJ@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: FW: Wire Transfer Information

Just an update… we are working on the wire transfer to the City 'as we speak'. We also have their supporting info for their payt to DWSD.

From: Natasha Henderson [mailto:nhenderson@cityofflint.com]
Sent: Thursday, October 22, 2015 3:23 PM
To: Byrne, Randall (Treasury) <ByrneR1@michigan.gov>
Subject: Fwd: Wire Transfer Information

Hello Randy,

You were included in this email.

Thanks,

Natasha L. Henderson, City Administrator
City of Flint, Michigan
1101 S. Saginaw St.
Flint, MI 48502
Email: nhenderson@cityofflint.com
Phone: (810) 237-2057
www.cityofflint.com

---------- Forwarded message ----------
From: **Jody Lundquist** <jlundquist@cityofflint.com>
Date: Thu, Oct 22, 2015 at 2:27 PM
Subject: Wire Transfer Information
To: saxtont@michigan.gov, "Sygo, Jim (DEQ)" <sygoj@michigan.gov>, byrner1@michigan.gov
Cc: Natasha Henderson <nhenderson@cityofflint.com>

Good afternoon, Gentlemen.

Please find the City's wire transfer information below.

Bank N
Routin
Acct#:
Accou
Contac

A copy of the outgoing wire transfer confirmations totaling $10 million is attached. The first wire was sent to DWSD on Friday, October 16, in the amount of $2 million. The remaining balance of $8 million was sent on Monday, October 19, in two separate transactions of $3 and $5 million due to max transfer limitations.

Please let me know if you have any questions or if I may be of any further assistance.

Best regards,

Jody N. Lundquist
Chief Financial Officer
City of Flint
1101 S. Saginaw Street, 2nd Floor
Flint, MI 48502
jlundquist@cityofflint.com
(810) 766-7268 ext. 2301

From: Muchmore, Dennis (GOV)
Sent: Friday, October 23, 2015 12:10 PM
To: 'Wyant, Dan (DEQ)'
Subject: RE: 2015-10-23 Flint Drinking Water Action Plan Update - FOIA EXEMPT AND ATTORNEY-CLIENT PRIVILEGED

How are you doing at the end of this week? You ok? I'm worried about you a little.

From: Wyant, Dan (DEQ)
Sent: Friday, October 23, 2015 12:07 PM
To: Scott, Allison (GOV) <scotta12@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Emmitt, Beth (GOV) <emmittb@michigan.gov>; Bedan, Morgan (GOV) <BedanM@michigan.gov>
Cc: Wyant, Dan (DEQ) <WyantD@michigan.gov>; Dickinson, Sarah (GOV) <DickinsonS@michigan.gov>; Edgerton, Shelly (LARA) <EdgertonS1@michigan.gov>; Dykema, Linda D. (DHHS) <DykemaL@michigan.gov>
Subject: 2015-10-23 Flint Drinking Water Action Plan Update - FOIA EXEMPT AND ATTORNEY-CLIENT PRIVILEGED

Dear Governor's Office:

Please provide the following to the Governor as a part of his daily briefing packet. If you have any questions, please let us know.

1. Action Steps Updated Document for the week of October 19-23, 2015
2. Flint Drinking Water Action Plan Update

Thank you.

Dan Wyant
Director

P.S. We are adding Shelly Edgerton, DLARA and Linda Dykema, DHHS as a cc to these daily e-mail communications in the future.

From: Muchmore, Dennis (GOV)
Sent: Monday, October 26, 2015 1:50 PM
To: 'Darnell Earley'
Subject: RE: Question for you...

Great to see the Op-Ed, I'm tired of seeing good people getting kicked around without a chance to set the record straight.

Frankly, the everyday Flint citizen has been very poorly served by these folks, and without help the city would have been bankrupt and my guess the problem exacerbated. Every single one of us is very disappointed and disheartened by the lead issue, and no one, especially you and I, thinks lead is acceptable at any level even though the feds recognize that a certain level is to be expected. A regular Flint citizen has every right to be ticked off by the findings, and I certainly don't blame them for being irritated they have this problem, need bottled water and filters, etc., but it's the old pipes that are the problem.

Lead doesn't magically appear or disappear because of the Flint River water, which we all, including you, expressed a lot of reservation about using. But, the river was always the back-up long before EM's and state involvement, and the locals went forward with the same understandings. Frankly, the response to the "dirty" water and the smell obviously precipitated chemical cures which may or may not have facilitated the leaching. Some of the levels will be relieved by the Lake Huron water, but not the essential issue in old cities throughout the country where the only resolution to lead levels is getting rid of old houses with lead issues and old pipes. Quite an undertaking, but without a viable city it could never be tackled.

From: Darnell Earley [mailto:darnell.earley@detroitk12.org]
Sent: Friday, October 23, 2015 2:56 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: Re: Question for you...

Dennis,

I am attending MASB but will get with staff first thing Monday to deal with this issue.

Thanks for your support on the op-Ed. It feels good to have my side of the story out there.

Have a great weekend!

Darnell

Sent from my iPhone

On Oct 23, 2015, at 12:12 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> Do we have a lot of teaching vacancies in the system? If so, could we attract some retired private school teachers (who I assume would be certificated) to teach in some of the openings? A legislator was complaining today about Renaissance HS having four vacancies and I wonder if we could hire some retired private school teachers for special subjects.
>
> I loved the op-ed. Only my PR wife keeps me from writing some much stronger language…

Message

From: Muchmore, Dennis (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=MUCHMORED]
Sent: 11/5/2015 4:26:10 PM
To: Wurfel, Brad (DEQ) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=b6f17684155b465697bd2b350f2eb914]; Saxton, Thomas (Treasury) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=5510c3cdf27f42dfb68ebdd7c7471e5b]; Wyant, Dan (DEQ) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=57e17534bc6d44b990e757afc8d8799d]
Subject: Fwd: MEDIA ADVISORY: City Administrator Press Briefing

See subject matter

Sent from my iPhone

Begin forwarded message:
From: Jason Lorenz <jlorenz@cityofflint.com>
Date: November 4, 2015 at 6:37:21 PM EST
To: undisclosed-recipients:;
Subject: MEDIA ADVISORY: City Administrator Press Briefing

FOR PLANNING PURPOSES ONLY - NOT FOR DISTRIBUTION

MEDIA ADVISORY: City Administrator Press Briefing

WHEN: Thursday, November 5, 2015 at 10:30am

WHERE: Mayor's Office Conference Room, Flint City Hall

Details: Topics will include, but are not limited to, updates on water related matters.

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039 (Office)
PPI Cell)
jlorenz@cityofflint.com

Message

From: Muchmore, Dennis (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=MUCHMORED]
Sent: 11/10/2015 2:19:14 PM
To: jpirich@honigman.com
Subject: Petition response

John
I think there's an issue with the response filing to the petition for recall. You refer to a switch to Flint river in April 2014. I think the decision to switch was made in 2013.

Sent from my iPhone

From: Muchmore, Dennis (GOV)
Sent: Thursday, November 12, 2015 4:53 PM
To: Workman, Wayne (TREASURY)
Subject: RE: Flint

Enjoy…

From: Workman, Wayne (TREASURY)
Sent: Thursday, November 12, 2015 11:31 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>
Subject: RE: Flint

Not very soon. They have only been there 6 months and the City now has a very large deficit in the Water Fund. We talked with the new Mayor about it on Tuesday. I will probably be in Flint next week with the Mayor and City Administrator.

From: Muchmore, Dennis (GOV)
Sent: Thursday, November 12, 2015 11:13 AM
To: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Subject: Flint

Now that the election is past and we are looking forward, how soon do you see us getting rid of the RTAB?

From: Muchmore, Dennis (GOV)
Sent: Tuesday, November 17, 2015 3:36 PM
To: Dennis Muchmore
Subject: FW: request for comment on congressman's letter
Attachments: Kildee nov 13 2015 latest letter.pdf

From: Muchmore, Dennis (GOV)
Sent: Tuesday, November 17, 2015 3:36 PM
To: Mcbride, Bill (GOV) <mcbrideb@michigan.gov>
Cc: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Scott, Allison (GOV) <scotta12@michigan.gov>; Walsh, John (GOV) <WalshJ@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>
Subject: RE: request for comment on congressman's letter

I do not believe we should respond to this over the top letter for both legal and philosophical reasons. Responding to this just feeds his narrative. How about we not issue a letter in response? Here's my issues:

1. First paragraph, top of second page. "...additional steps that need to be taken to remediate the damage done to the people of Flint due to the failures at the state government level, alongside the forgiveness of Flint's Revolving Funds loan debt if that becomes available." All of these emotionally charged and essentially unfounded accusations suggest the state's culpability in levying damages to "the people of Flint". There are definitely people in Flint (mostly poor and without many resources but also many other people) struggling with an old system, brown water, lead and unsavory health problems that have been put through several months of alarm and struggle, but let's try to deal with human beings and not political bombast. Let's identify and solve problems. Literally hundreds of state employees have worked night and day to resolve these issues. Are we going to blame state employees indiscriminately when our people were simply trying to do their jobs to the best of their ability and were unable to anticipate (for whatever reason) all the consequences?
2. First bullet point. "...and other state resources such as the rainy day and general funds to repair damage done...". Sorry, but we're not going to commit the general fund to repair "...Flint's water distribution system." What does that mean? And if we sign on to that then where does it stop and what repairs?
3. Second paragraph. "...hundreds of millions of dollars of damage....". Where did this come from? I take it the Congressman is now a self-appointed expert on water systems and their cost?
4. Second bullet. "...the state create a fund for ongoing assistance...." We already have several funds to deal with lead exposure and we have multiple programs, WIC, Medicaid, health endowment, etc. to assist people in need. Why would we create another fund?
5. Third paragraph. "...need for significant investments in the local health system in order to respond....". We already make significant investments in the local system. They were able to identify the danger early and I would assume they will be significant players in the future. Additionally, DHHS has a myriad of programs already in place to assist the local health system, which I don't need to remind everyone is a city owned hospital and for whatever reason never consulted by the city when the KWA conversion was being studied and proposed. That system also never objected nor tested the Flint River before, even though the river was always the city's source backup. Even the proposal prior to the state's involvement considered using two million gallons of Flint River water and that was a public record. But, that's another issue best left to another time.
6. Third bullet. "...rescind Flint's obligation to provide $2 million for the cost of connecting....". The state gave the city $2.1 million to help the water system during the summer, and part of the agreement to get the $6 million from the legislature for the emergency was contingent on Flint contributing a share.

7. Fourth paragraph. "…for the state's failures is an abdication of clear responsibility….". First of all, it's not a state's failures, it is a perhaps avoidable mistake made with the corrosives that was unacceptable to us, the Director and Governor are taking actions to fix the problems, the health and wellness of the people of Flint is our absolute concern, and it's not an abdication of clear responsibility. The "…state-appointed emergency manager was in charge…" may well be accurate for the physical change, but the decision to leave the Detroit system was made when the city, the Mayor, the council, the county, local leaders and the KWA was devised and that was well before the physical change.

For these reasons and others, I'd prefer Sara's general assistance and aid comments and not responding to the letter.

From: Hollins, Harvey (GOV)
Sent: Tuesday, November 17, 2015 1:19 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Cc: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Mcbride, Bill (GOV) <mcbrideb@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>
Subject: Re: request for comment on congressman's letter

That's what I suggested; however after given it second thought, I think a simple reply should go something like:

"Thank you for your concerns regarding Flint. I've established a task force of experts who will advise us how to proceed, and I will be more than happy to send you their findings to you."

Best,
Harvey Hollins III, Director
Governor's Office of Urban Initiatives

313.456.4994 (office)
PPI (Cell)

On Nov 17, 2015, at 11:30 AM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> I think we should ignore the letter. We gain nothing by responding. I will send to Dan separately unless you all go crazy.
>
> ---
>
> **From:** Wurfel, Sara (GOV)
> **Sent:** Tuesday, November 17, 2015 10:06 AM
> **To:** Mcbride, Bill (GOV) <mcbrideb@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
> **Subject:** FW: request for comment on congressman's letter
>
> Please see below. Know we talked about this yesterday briefly at senior staff. What is status of response? Otherwise, will stick to basics and focus on moving forward piece, along with seeing if any specific updates from DEQ.
>
> ---
>
> **From:** Ronald Fonger [mailto:RFONGER1@mlive.com]
> **Sent:** Tuesday, November 17, 2015 9:53 AM
> **To:** Wurfel, Sara (GOV) <Wurfels@michigan.gov>
> **Subject:** request for comment on congressman's letter

Hi Sara:
I've attached a copy of a letter Congressman Kildee sent to Gov. Snyder last week concerning Flint water issues.
I didn't know if there has been a formal reply and/or if you would want to comment on it.
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

DANIEL T. KILDEE
5TH DISTRICT, MICHIGAN

COMMITTEE ON
FINANCIAL SERVICES

SUBCOMMITTEE ON
HOUSING AND INSURANCE

SUBCOMMITTEE ON
MONETARY POLICY AND TRADE

SENIOR WHIP

DEMOCRATIC POLICY AND
COMMUNICATIONS COMMITTEE

Congress of the United States
House of Representatives
Washington, DC 20515

WASHINGTON OFFICE

227 CANNON HOUSE OFFICE BUILDING
WASHINGTON, DC 20515
(202) 225-3611
(202) 225-6393 (FAX)

DISTRICT OFFICE

111 EAST COURT STREET #3B
FLINT, MI 48502
(810) 238-8627
(810) 238-8658 (FAX)

WWW.DANKILDEE.HOUSE.GOV
/REPDANKILDEE
@REPDANKILDEE

November 13, 2015

Governor Rick Snyder
Executive Office of the Governor
P.O. Box 30013
Lansing, Michigan 48909

Governor Snyder:

I would like to provide you an update with some of the work we are doing in response to your letter on October 2, 2015 letter. I also have three requests of the state that are necessary to provide relief to the victims of the Flint water crisis.

First, Senator Stabenow, Senator Peters and I wrote a letter to the U.S. Environmental Protection Agency (EPA) asking for clarification on whether federal law permits states to use Safe Drinking Water State Revolving Funds (Revolving Funds) to finance the replacement of privately owned lead water service lines (attached). The EPA responded that the Revolving Funds can in fact be used for this purpose. My office immediately notified both your office and the Michigan Department of Environmental Quality of this fact.

Secondly, the three of us also wrote to Secretary Tom Vilsack requesting that the U.S. Department of Agriculture (USDA) provide greater clarification on the availability of "Ready to Feed" formula for recipients of Special Supplemental Nutrition Program for Women, Infants and Children (WIC) in Flint. Additionally, the letter asks to identify resources to improve the nutrition of Flint residents specifically as it relates to lead, because a certain diet can reduce some of the impact of exposure. The USDA is currently reviewing the letter.

Third, I have been working with the EPA on important revisions to the Lead and Copper Rule that would prevent a public health crisis like the one in Flint from happening again in other communities. I will be providing testimony at a meeting of the National Drinking Water Advisory Council next Wednesday, November 18 on what we have learned firsthand in Flint and the necessary improvements to the Lead and Copper Rule.

I will continue to pursue all of these avenues in order to find assistance for the people of Flint. There are, however, additional steps that need to be taken to remediate the damage done to the people of Flint due to the failures at the state government level, alongside the forgiveness of Flint's Revolving Funds loan debt if that becomes available. I urge state and local partners to work in coordination to fulfill the following requests.

- First, I request that the state of Michigan use its Revolving Funds and other state resources such as the rainy day and general funds to repair the damage done to Flint's water distribution system.

Due to the corrosive nature of the water, conservative estimates show there has been hundreds of millions of dollars of damage done to Flint's water distribution system. The damage to the system will increase maintenance costs resulting in higher rates for Flint water users, who already are burdened by the highest water rates in the state. Furthermore, the presence of over 15,000 lead service lines continues to threaten the quality of the water and creates the potential for future lead exposure through drinking water. As stated previously, the EPA has said that using the Revolving Funds for this purpose is allowed under federal law, and I request the state do so.

- Second, I request the state create a fund for ongoing assistance to the people of Flint to respond to the impacts of lead exposure.

The effects of lead are serious and permanent, with especially harmful impacts on young children and those with weakened immune systems. In discussions with health professionals, they have expressed the need for significant investments in the local health system in order to respond to the widespread exposure of lead to the people of Flint, including monitoring of future lead exposure. This fund should include support for, at a minimum, continuous health monitoring, early education programs, nutrition education, support services for children to succeed in school, and continued exposure prevention efforts. The investments we make now to combat the negative impacts of lead exposure will pay dividends in avoided costs in the future.

- Finally, I again ask that the state immediately reverse course and rescind Flint's obligation to provide $2 million for the cost of connecting to the Detroit water system and refund any money the city of Flint has had to pay.

Requiring a financially distressed city and its people to pay for the state's failures is an abdication of clear responsibility by the state. The state-appointed emergency manager was in charge of the city of Flint during the time that the decision to leave the Detroit system was made. The state – not Flint – created this water crisis, and the state needs to pay to fix it. The $2 million Flint spent to reconnect to the Detroit water system could be used for many other essential services in Flint, such as hiring policemen and firefighters, improving schools and maintaining parks.

In addition to state investments, I encourage the state to request assistance from federal agencies. They have extensive experience working with health, education and nutrition systems nationwide and could provide critical resources to state officials. Specifically, the Centers for Disease Control and Prevention has offered resources if the state requests it. I will work to support any efforts for federal assistance the state makes.

I look forward to working with the state and federal governments to not only provide clean drinking water to the people of Flint immediately, but also repair the damage done to the city's water system and give local health professionals the resources they need to combat the long term impacts of lead exposure.

Sincerely,

Dan Kildee
MEMBER OF CONGRESS

Cc:
Senate Republican Leader Arlen Meekhof
Senate Democratic Leader Jim Ananich
Speaker of the House Kevin Cotter
House Democratic Leader Tim Greimel

From: Muchmore, Dennis (GOV)
Sent: Tuesday, November 17, 2015 5:24 PM
To: 'Anderson, Madhu (DEQ)'; Ken Sikkema (ksikkema@pscinc.com)
Cc: Agen, Jarrod (GOV); Baird, Richard (GOV); Weber, Travis (GOV); Hollins, Harvey (GOV); Murray, David (GOV); Wurfel, Sara (GOV); Lyon, Nick (DHHS)
Subject: RE: Privileged Attorney-Client Communication - Outline of Flint Drinking Water Issues

Thank you Madhu, the outline is helpful to all of us.

From: Anderson, Madhu (DEQ)
Sent: Tuesday, November 17, 2015 11:20 AM
To: Ken Sikkema (ksikkema@pscinc.com) <ksikkema@pscinc.com>
Cc: Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Weber, Travis (GOV) <WeberT7@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Lyon, Nick (DHHS) <LyonN2@michigan.gov>
Subject: Privileged Attorney-Client Communication - Outline of Flint Drinking Water Issues

Ken – Attached is the outline of the Flint Drinking Water issue (in a question and answer format) we have prepared for you to share with your colleagues on the Governor's Flint Water Task Force. Please let me know if we can provide any other material in preparation for the meeting tomorrow.

Madhu R. Anderson
Deputy Director, Economic and Strategic Initiatives
☎ 517 284 6702 | PPI
andersonm30@michigan.gov

DEQ

From: Muchmore, Dennis (GOV)
Sent: Thursday, November 19, 2015 2:27 PM
To: 'Andy Dillon'
Subject: RE: Flint water

I don't remember what the phone call was about, obviously Flint alternative water supplies. But, it is not the call where you told me you were going to approve the switch. I know which date that was and it wasn't this one.

As for the decision making on the switch, as I remember it, the Flint people demanded you go to KWA. They (as I remember you indicated Curtis, the Drain Commissioner, Gleason, Emerson and United Way Brown?, thought it would serve the city best in the long run to get out of DWSD. I remember you agonized over it and questioned the switch in several different conversations. Ultimately you felt that the city would be back under local governance in the future and if that's what they wanted you understood their concerns. I also seem to remember discussions about the County Commission wanting the switch and their advocacy in the switch as well as the Flint labor Council. It's a long time ago, and I don't have any notes on it as we had at least five or six conversations on this, but I think this sounds correct. You were acting as State Treasurer but really keeping us plugged But, I could have the specifics on this wrong....

From: Andy Dillon [mailto:adillon@conwaymackenzie.com]
Sent: Thursday, November 19, 2015 2:04 PM
To: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>
Subject: Fwd: Flint water

I am not anxious to respond to him but my experience of ignoring him hasn't been very productive.

He is focused in on a relevant question.

Andy Dillon
Conway MacKenzie Inc.
401 S. Old Woodward Avenue, Suite 340, Birmingham, MI 48009
248.952.8868 (office) | PPI cell) | 248.433.3143 (fax)
adillon@conwaymackenzie.com

---------- Forwarded message ----------
From: **Egan, Paul** <pegan@freepress.com>
Date: Thu, Nov 19, 2015 at 1:48 PM
Subject: Flint water
To: "ADillon@ConwayMacKenzie.com" <ADillon@conwaymackenzie.com>

Hi Andy: Why did the state and city opt to go with KWA for Flint water supply when the study you commissioned from Tucker, Young, Jackson, Tull found that going with KWA would be more costly than staying with DWSD? (Here is excerpt from p. 17):

"Based on the analysis, it is prudent to assume the KWA water supply option costs would be somewhere between the KWA-1 and KWA-2 options. Therefore, the analysis indicates that the two DWSD options of supplying 8 MGD on a maximum day and up to 8 MGD on average are the least cost options for Flint. These options allow Flint to maximize the use of existing assets; the City of Flint's (the Flint WTP) and DWSD's (the existing 72-inch main)."

How would you describe your role in the chain of decisions that led to Flint drawing its water supply from the Flint River?

The Flint City Council opted to go with the KWA on the evening of March 25, 2013. Your schedule shows you had a 5 p.m. phone conversation at 5 p.m. that day with Dennis Muchmore "regarding Flint Water Supply alternatives."

The next day, March 26, 2013, your schedule shows a 9 a.m. meeting at Treasury "regarding Flint water, a 1:30 p.m. phone call with Dan Wyant "regarding Flint/KWA," and a w p.m. meeting in Lansing with Flint Mayor Dayne Walling?

What do you recall about these conversations/meetings? Did Muchmore sign off on the switch to KWA on behalf of the governor?

Thanks, Paul Egan

Detroit Free Press

Cell PPI

From: Muchmore, Dennis (GOV)
Sent: Thursday, November 19, 2015 2:36 PM
To: 'Andy Dillon'
Subject: RE: Flint water

Do you have any idea what the call was about?

From: Andy Dillon [mailto:adillon@conwaymackenzie.com]
Sent: Thursday, November 19, 2015 2:04 PM
To: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Baird, Richard (GOV) <bairdr@michigan.gov>
Subject: Fwd: Flint water

I am not anxious to respond to him but my experience of ignoring him hasn't been very productive.

He is focused in on a relevant question.

Andy Dillon
Conway MacKenzie Inc.
401 S. Old Woodward Avenue, Suite 340, Birmingham, MI 48009
248.952.8868 (office) | PPI cell) | 248.433.3143 (fax)
adillon@conwaymackenzie.com

---------- Forwarded message ----------
From: **Egan, Paul** <pegan@freepress.com>
Date: Thu, Nov 19, 2015 at 1:48 PM
Subject: Flint water
To: "ADillon@ConwayMacKenzie.com" <ADillon@conwaymackenzie.com>

Hi Andy: Why did the state and city opt to go with KWA for Flint water supply when the study you commissioned from Tucker, Young, Jackson, Tull found that going with KWA would be more costly than staying with DWSD? (Here is excerpt from p. 17):

"Based on the analysis, it is prudent to assume the KWA water supply option costs would be somewhere between the KWA-1 and KWA-2 options. Therefore, the analysis indicates that the two DWSD options of supplying 8 MGD on a maximum day and up to 8 MGD on average are the least cost options for Flint. These options allow Flint to maximize the use of existing assets; the City of Flint's (the Flint WTP) and DWSD's (the existing 72-inch main)."

How would you describe your role in the chain of decisions that led to Flint drawing its water supply from the Flint River?

The Flint City Council opted to go with the KWA on the evening of March 25, 2013. Your schedule shows you had a 5 p.m. phone conversation at 5 p.m. that day with Dennis Muchmore "regarding Flint Water Supply alternatives."

The next day, March 26, 2013, your schedule shows a 9 a.m. meeting at Treasury "regarding Flint water, a 1:30 p.m. phone call with Dan Wyant "regarding Flint/KWA," and a w p.m. meeting in Lansing with Flint Mayor Dayne Walling?

What do you recall about these conversations/meetings? Did Muchmore sign off on the switch to KWA on behalf of the governor?

Thanks, Paul Egan

Detroit Free Press

Cell PPI

From: Muchmore, Dennis (GOV)
Sent: Tuesday, December 15, 2015 12:12 PM
To: 'Workman, Wayne (TREASURY)'; Khouri, Nick (TREASURY); Saxton, Thomas (Treasury); Hollins, Harvey (GOV); Clement, Elizabeth (GOV); Stanton, Terry A. (Treasury); Sampson, Jeremy (TREASURY); Agen, Jarrod (GOV); Wurfel, Brad (DEQ)
Subject: RE: PRESS RELEASE- STATE OF EMERGENCY DECLARED

With the declaration apparently the Mayor is appealing for Fed help to Cong. Kildee. That seems reasonable.

From: Workman, Wayne (TREASURY)
Sent: Tuesday, December 15, 2015 10:32 AM
To: Khouri, Nick (TREASURY) <KhouriN@michigan.gov>; Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Sampson, Jeremy (TREASURY) <SampsonJ@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>
Subject: FW: PRESS RELEASE- STATE OF EMERGENCY DECLARED

FYI

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Byrne, Randall (Treasury)
Sent: Tuesday, December 15, 2015 9:50 AM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Schafer, Suzanne K. (Treasury) <SchaferS7@michigan.gov>
Subject: FW: PRESS RELEASE- STATE OF EMERGENCY DECLARED

Wayne and Suzanne:

Mayor Weaver declared a State of Emergency in Flint last night. I have attached a copy for your review. Natasha tried to discourage her from proceeding on this. FYI, I am going to call the Mayor on the search. It doesn't sound like she wants to use Tom for the search.

Randy,

From: Natasha Henderson [mailto:nhenderson@cityofflint.com]
Sent: Tuesday, December 15, 2015 9:40 AM
To: Byrne, Randall (Treasury) <ByrneR1@michigan.gov>
Subject: Fwd: PRESS RELEASE- STATE OF EMERGENCY DECLARED

Thanks,

Natasha L. Henderson, City Administrator
1101 S. Saginaw St.
Flint, MI
Email: nhenderson@cityofflint.com
Phone: (810) 237-2057
www.cityofflint.com

---------- Forwarded message ----------
From: "Sean Kammer" <skammer@cityofflint.com>
Date: Dec 14, 2015 10:32 PM
Subject: PRESS RELEASE- STATE OF EMERGENCY DECLARED
To:
Cc:

Mayor Karen Weaver Declares State of Emergency

Flint, MI – December 14, 2015 – Mayor Karen Weaver has declared a State of Emergency in response to a man-made disaster caused by the City switching to the Flint River as a water source. This switch has resulted in elevated lead levels in drinking water which prompted both the City and the County Health department to issue a health advisory earlier this year.

Mayor Weaver states that this was one of the things she had promised to do while campaigning for mayor.

Declaring an emergency intends to help raise awareness of the issue that the water is still not safe to drink and activates the City's Emergency Support Plan in order to respond to the crisis.

On October 16 of this year, the City switched back to the Detroit Water and Sewerage Department as the source of water, however lead levels remain well above the federal action level of 15 parts per billion in many homes. Residents are advised to continue using water filters while long term solutions are being developed.

The Mayor will hold a press conference about the State of Emergency on Tuesday, December 15 at 2pm at City Hall.

END

--

Sean Kenneth Kammer, MPA
Assistant to the City Administrator
City of Flint, Michigan
1101 S. Saginaw St.
Flint, MI 48502
810-237-2025

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Wednesday, December 11, 2013 8:34 AM
To: Clement, Elizabeth (GOV); Etue, Kriste (MSP); Sands, Thomas (MSP); Dempkowski, Angela (Treasury); Bolger, Matt (MSP); Darnell Earley; Koryzno, Edward (Treasury); Elizabeth Murphy; James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Byrne, Randall (Treasury); O'Neill, Stephen (MSP); Workman, Wayne (TREASURY); Baird, Richard (GOV); Muchmore, Dennis (GOV); Roberts, John (GOV); Larkin, Brian (GOV); Hollins, Harvey (GOV); Saxton, Thomas (Treasury)
Subject: Agenda for Today's Call
Attachments: Weekly Phone Conference Agenda Dec..doc

Good morning,

Attached is the agenda for today's call.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Weekly 10am Phone Conference Agenda

1)
2)
3)
4) Not Responsive
5)
6) KWA, Water Plant Preparation, Water/Sewer Rate Study
7)
8)
9)
10)
11)
12) Not Responsive
13)
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15)
16)
17)
18)

Created on 12/4/2013

From: Maxine Murray [mmurray@cityofflint.com]
Sent: Wednesday, December 11, 2013 8:47 AM
To: Baird, Richard (GOV); Muchmore, Dennis (GOV); Roberts, John (GOV); Larkin, Brian (GOV); Darnell Earley; Koryzno, Edward (Treasury); Elizabeth Murphy; Hollins, Harvey (GOV); Jerry Ambrose; Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); Clement, Elizabeth (GOV); Etue, Kriste (MSP); Sands, Thomas (MSP); Dempkowski, Angela (Treasury); Bolger, Matt (MSP); James Tolbert; Klotz, Josephine (MSP); Byrne, Randall (Treasury); O'Neill, Stephen (MSP)
Subject: Weekly Conference Call Agenda
Attachments: Weekly Phone Conference Agenda Dec..doc

Please find attached the agenda correcting the time of the call.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Weekly 9:00 am Phone Conference Agenda

1)
2)
3)
4) Not Responsive
5)

6) KWA, Water Plant Preparation, Water/Sewer Rate Study

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12) Not Responsive
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18)

Created on 12/4/2013

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, January 07, 2014 2:14 PM
To: Baird, Richard (GOV); BymeR1@michigan.gov; Deasy, Thomas (MSP); Etue, Kriste (MSP); Kapp, Gene (MSP); Lee, Nichole (MSP); Muchmore, Dennis (GOV); Roberts, John (GOV); Sands, Thomas (MSP); Sipes, Stephen (MSP); West, Samantha (GOV); Dempkowski, Angela (Treasury); Larkin, Brian (GOV); Darnell Earley; Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Weekly Conference Call Agenda
Attachments: Weekly Phone Conference Agenda - January 8, 2014.doc

Good afternoon,

Attached is the agenda for the Wednesday, January 8, 9:00 am conference call.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Weekly 9:00 am Phone Conference Agenda

Not Responsive

8) KWA, Water Plant Preparation, Water/Sewer Rate Study

Not Responsive

Created on 01/7/14

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, January 14, 2014 3:46 PM
To: Baird, Richard (GOV); BymeR1@michigan.gov; Deasy, Thomas (MSP); Etue, Kriste (MSP); Kapp, Gene (MSP); Lee, Nichole (MSP); Muchmore, Dennis (GOV); Roberts, John (GOV); Sands, Thomas (MSP); Sipes, Stephen (MSP); West, Samantha (GOV); Dempkowski, Angela (Treasury); Larkin, Brian (GOV); Darnell Earley; Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Weekly Flint Conference Call Agenda
Attachments: Weekly Phone Conference Agenda 01152014.doc

Good afternoon,

Attached is the agenda for the Wednesday, January 15th conference call.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Weekly 9:00 am Phone Conference Agenda

Not Responsive

8) KWA, Water Plant Preparation, Water/Sewer Rate Study

Not Responsive

Created on 01/14/14

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, January 21, 2014 9:46 AM
To: Baird, Richard (GOV); BymeR1@michigan.gov; Deasy, Thomas (MSP); Etue, Kriste (MSP); Kapp, Gene (MSP); Lee, Nichole (MSP); Muchmore, Dennis (GOV); Roberts, John (GOV); Sands, Thomas (MSP); Sipes, Stephen (MSP); West, Samantha (GOV); Dempkowski, Angela (Treasury); Larkin, Brian (GOV); Darnell Earley; Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Conference Call Agenda for Wednesday, January 22, 2014
Attachments: Weekly Phone Conference Agenda for January 22, 2014.doc

Good morning,

Please find attached the agenda for the weekly conference call scheduled for Wednesday, January 22nd.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Weekly 9:00 am Phone Conference Agenda

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Not Responsive

8) KWA, Water Plant Preparation, Water/Sewer Rate Study

Not Responsive

Created on 01/21/14

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, January 28, 2014 4:16 PM
To: Baird, Richard (GOV); BymeR1@michigan.gov; Deasy, Thomas (MSP); Etue, Kriste (MSP); Kapp, Gene (MSP); Lee, Nichole (MSP); Muchmore, Dennis (GOV); Roberts, John (GOV); Sands, Thomas (MSP); Sipes, Stephen (MSP); West, Samantha (GOV); Dempkowski, Angela (Treasury); Larkin, Brian (GOV); Darnell Earley; Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); Antonio Brown
Subject: Weekly Conference Call Agenda for Wednesday, January 29, 2014
Attachments: Weekly Phone Conference Agenda 012914.doc

Good afternoon,

Please find attached the agenda for the Wednesday, January 29th conference call.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Weekly 9:00 am Phone Conference Agenda

Not Responsive

8) KWA, Water Plant Preparation, Water/Sewer Rate Study

Not Responsive

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, February 18, 2014 3:15 PM
To: BymeR1@michigan.gov; Deasy, Thomas (MSP); Etue, Kriste (MSP); Kapp, Gene (MSP); Lee, Nichole (MSP); Muchmore, Dennis (GOV); Roberts, John (GOV); Sands, Thomas (MSP); Sipes, Stephen (MSP); West, Samantha (GOV); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Larkin, Brian (GOV); Darnell Earley; Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Bi-Weekly Conference Call Agenda
Attachments: Weekly Phone Conference Agenda 02192014.doc

Good afternoon,

Please find attached the agenda for the Wednesday, February 19th conference call.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00 am Phone Conference Agenda
Feb. 19, 2014

Not Responsive

Not Responsive

6) Water Transition Plan, Negotiations, Communications

DEQ is in final review for COF permit to temporarily store spent lime from water treatment plant – needed for full river water operation. Negotiations have begun with the GCDC and KWA for purchase of existing water pipe and back up plans.

Equipment timing for water plant on schedule.

Not Responsive

Created on: 02/14/13

PPI

Redacted

Redacted

Redacted

Darnell Earley, ICMA-CM, MPA
Emergency Manager
Flint, MI

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, March 04, 2014 4:41 PM
To: BymeR1@michigan.gov; Deasy, Thomas (MSP); Etue, Kriste (MSP); Kapp, Gene (MSP); Lee, Nichole (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); Sands, Thomas (MSP); Sipes, Stephen (MSP); West, Samantha (GOV); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Larkin, Brian (GOV); Darnell Earley; Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Agenda for Wednesday, March 5, 2014
Attachments: Wednesday Agenda 9am Meeting 030514.doc; Mayor Walling's State of the City Address 030314.pdf

Good afternoon,

Please find attached the agenda for Wednesday's conference call and Mayor Walling's State of the Address.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00 am Phone Conference Agenda
March 5, 2014

Not Responsive

Not Responsive

4) Financial Update

a) City met Friday 2/27/14 with E&Y to review progress on Hurley, and the 5 year projections. Hurley is in draft form. The 5 year plan should be completed in a couple of weeks. Also, reviewed draft of RFC analysis and recommendations regarding the water and sewer rates.

b) Treasury when will we get approval of the budget amendment? As we go into KWA financing, we are proceeding as if the amendment is done. That is important because the amendment maintains the $1million in deficit reduction. Nearly 2 weeks and we are still awaiting a response.

c) Treasury, please respond whether draft deficit elimination plan is credible.

d) Need some assistance in getting the Administrative Consent Order through the DEQ so Karegnondi Water Authority can get their bonds issued.

Not Responsive

Not Responsive

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, March 18, 2014 4:15 PM
To: BymeR1@michigan.gov; Deasy, Thomas (MSP); Kapp, Gene (MSP); Lee, Nichole (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); Sands, Thomas (MSP); Sipes, Stephen (MSP); West, Samantha (GOV); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Larkin, Brian (GOV); Darnell Earley; Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Conference Call Agenda
Attachments: Agenda 031914 Conf. Call with Treasury.pdf

Good afternoon,

Please find attached the agenda for the conference call scheduled for Wednesday, March 19, 9:00 am.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00 am Phone Conference Agenda
March 19, 2014

Not Responsive

4) Financial Update

a) Deficit Elimination Plan – S. Schafer found no accounting concerns. COF is intending to proceed along lines of DEP as we await formal approval.

b) Approval of the budget amendment still pending – 4 weeks. Because of Water Treatment Plant update expense and timeline, we are proceeding as we await formal approval of the amendment. That is also important because the amendment maintains the $1million in deficit reduction.

c) Thanks to Treasury for assistance in moving Administrative Consent Order through the DEQ, however the process is still moving slowly. ACO is still not approved.

d) Update on E&Y contract: held a phone conference with Treasury about Hurley, Water and Sewer study and their update of the 5 year financial projections.

Not Responsive

Not Responsive

7) **Water Issues**

The Water Plant held a ceremonial ground-breaking for the update to the water treatment plant in preparation to transition to Flint River use as drinking water source.

We will know by the first of next week the certainty of being on the river in April.

We are currently in negotiations with GCDC on purchase of pipeline. COF is making counter-proposal on sale of pipeline (using $4million appraisal value). Need to know Treasury will approve sale using this appraisal.

Not Responsive

Not Responsive

Attachment A

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Attachment B

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, April 01, 2014 4:53 PM
To: Byrne, Randall (Treasury); Deasy, Thomas (MSP); Kapp, Gene (MSP); Lee, Nichole (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); Sands, Thomas (MSP); Sipes, Stephen (MSP); West, Samantha (GOV); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Larkin, Brian (GOV); Darnell Earley; Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); McGowan, Emmitt (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Conference Call Agenda - April 2, 2014
Attachments: Agenda for April 2, 2014 Conference Call.pdf

Good afternoon,

Attached is the agenda for the conference call scheduled for Wednesday, April 2nd, 9:00 am.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00 am Phone Conference Agenda
April 2, 2014

Not Responsive

c) Water Treatment Plant – Resolutions authorizing contractors approved by Treasury. Frost conditions and easement issues with Consumers Energy may impact completion date, but are being addressed. DEQ ACO has been approved. Awaiting approval of Construction Permit, discussions with Water and Solid Waste Divisions ongoing. Must be resolved this week or significant delay with project could occur.

Not Responsive

Not Responsive

6) **Water Issues**

a) Water Issues – DEQ permits are expected to be received this week. Consumers Powers easements issues are being addressed. However, termination of water service from DWSD may be delayed. Awaiting confirmation of terms from DWSD by which water will continue to be purchased from DWSD – presumably the terms outlined in their February 12, 2014 letter. Delay *could* be a matter of weeks, but certainly no later than June 30, 2014.

b) Negotiations with GCDC continue with regards to sale of the pipeline section. COF current proposal is for $3.9 million sale price, the value established in recent valuation. Valuation has been submitted and reviewed by Treasury. Submission to Treasury for approval is anticipated prior to ending relationship with DWSD. Also, COF is negotiating back-up service agreement for GCDC for period between DWSD termination and KWA start-up.

c) Water and Sewer Rate Study – the final draft is due shortly and will be reviewed with the Public Works Committee on April 10.

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

From: Elizabeth Murphy <emurphy@cityofflint.com>
Sent: Tuesday, May 27, 2014 3:27 PM
To: Byrne, Randall (Treasury); Kapp, Gene (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); West, Samantha (GOV); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Larkin, Brian (GOV); Darnell Earley; Deasy, Thomas (MSP); Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Lee, Nichole (MSP); McGowan, Emmitt (MSP); Sands, Thomas (MSP); Sipes, Stephen (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); Peter Bade; David Cox Jr.
Subject: Conference Call Agenda May 28, 2014
Attachments: Agenda 052814 Conf Call.pdf

Good Afternoon,
Please find attached the agenda for the Wednesday, May 28th conference call.

--
Liz Murphy
Assistant to the Emergency Manager
City of Flint
810 237 2025

City of Flint Wednesday 9:00am Phone Conference Agenda
May 28, 2014

Not Responsive

Not Responsive

7) **Water Issues**
   a) The City Council met twice to discuss the sale of a 9 mile section of unused pipeline to the GCDC. The City had negotiated a sale price of $3.9 million. Council first voted to reject the sale. A second meeting resulted in a vote to sell the pipe section for $3.9 million but receive the funds in two payments over two fiscal years. It is unknown if the City council made a submission of this proposal to the local emergency financial assistance loan board. Does Flint have Treasury's approval to execute the contract of sale?

Not Responsive

Not Responsive

Not Responsive

Sewer Fund	590	Current FY14	Proposed FY15	Proposed FY16	Projected FY17	Projected FY18	Projected FY19
	Revenues	$31,929,269	$30,256,545	$32,346,745	$32,346,745	$32,346,745	$32,346,745
	Expenses	$31,829,369	$30,256,545	$32,346,745	$34,803,099	$36,149,343	$37,216,957
	Cumulative Gap	$0	$0	$0	($2,456,354)	($5,864,752)	($10,634,964)
	Annual Gap	$0	$0	$0	($2,456,354)	($3,802,598)	($4,870,212)
Water Fund	591						
	Revenues	$47,896,872	$37,500,000	$37,500,000	$37,500,000	$37,500,000	$37,500,000
	Expenses	$47,896,872	$34,503,530	$35,032,250	$38,841,189	$40,741,905	$41,965,725
	Cumulative Gap	$0	$2,996,470	$2,467,750	($1,341,189)	($4,583,094)	($8,929,819)
	Annual Gap	$0	$0	$0	($1,341,189)	($3,241,905)	($4,346,725)
Water and Sewer	590 & 591						
	Revenues	$79,826,141	$67,756,545	$69,846,745	$69,846,745	$69,846,745	$69,846,745
	Expenses	$79,826,141	$64,760,075	$67,378,995	$73,450,288	$76,891,049	$79,160,682
	Cumulative Gap	$0	$2,996,470	$2,467,750	($3,603,543)	($10,647,847)	($19,961,784)
	Annual Gap	$0	$0	$0	($3,603,543)	($7,044,304)	($9,313,937)

Not Responsive

CITY OF FLINT - FIVE YEAR OUTLOOK
Pension and Retiree Healthcare Costs

Not Responsive

Not Responsive

			Current FY14	Proposed FY15	Proposed FY16	Projected FY17	Projected FY18	Projected FY19
Sewer Fund		590						
	Retiree Healthcare		$2,329,983	$2,447,566	$2,594,420	$2,750,085	$2,915,090	$3,089,996
	Pension		$2,179,100	$2,040,715	$2,163,159	$2,292,949	$2,430,525	$2,576,357
	Other expenses		$27,420,186	$25,768,264	$27,569,166	$29,666,065	$30,803,527	$31,550,604
	Total		$31,929,269	$30,256,545	$32,346,745	$34,609,099	$36,149,143	$37,216,957
	Healthcare & Pension %		14%	15%	15%	16%	15%	15%
Water Fund		591						
	Retiree Healthcare		$1,680,062	$2,963,588	$3,141,403	$3,329,887	$3,529,680	$3,741,461
	Pension		$1,815,687	$1,803,098	$1,911,284	$2,025,961	$2,147,519	$2,276,370
	Other expenses		$44,401,123	$29,736,844	$29,859,563	$33,485,341	$35,064,707	$35,925,894
	Total		$47,896,872	$34,503,530	$35,012,250	$38,841,189	$40,741,906	$41,943,725
	Healthcare & Pension %		7%	14%	14%	14%	14%	14%
Water and Sewer		**590 & 591**						
	Retiree Healthcare		**$4,010,045**	**$5,411,154**	**$5,735,823**	**$6,079,972**	**$6,444,771**	**$6,831,457**
	Pension		**$3,994,787**	**$3,843,813**	**$4,074,443**	**$4,318,910**	**$4,578,044**	**$4,852,727**
	Other expenses		**$71,821,309**	**$55,505,108**	**$57,548,729**	**$63,051,406**	**$65,868,234**	**$67,476,498**
	Total		**$79,826,141**	**$64,760,075**	**$67,358,995**	**$73,450,288**	**$76,891,049**	**$79,160,682**
	Retiree Healthcare as % of Total Expenses		**5%**	**8%**	**9%**	**8%**	**8%**	**9%**
	Pension as % of Total Expenses		**5%**	**6%**	**6%**	**6%**	**6%**	**6%**
	Healthcare & Pension %		**10%**	**14%**	**15%**	**14%**	**14%**	**15%**

Not Responsive

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, August 19, 2014 2:36 PM
To: Byrne, Randall (Treasury); Kapp, Gene (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); West, Samantha (GOV); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Larkin, Brian (GOV); Darnell Earley; Deasy, Thomas (MSP); Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Lee, Nichole (MSP); McGowan, Emmitt (MSP); Sands, Thomas (MSP); Sipes, Stephen (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Conference Call Agenda
Attachments: Agenda 081914 and Attachment.pdf

Good afternoon,

Please find attached the agenda for the Wednesday, August 20th, 9:00 am conference call.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00am Phone Conference Agenda
August 20, 2014

Not Responsive

Not Responsive

7) **Water Issues**
   a) The cost of providing water is becoming a state-wide issue for distressed communities. Let's begin a larger conversation on both the impacts and the potential limitations for cities and how the State could play a role. Meeting held last week with United Way and Resource Genesee to discuss options for residents who receive water shut off notices.
   b) Glenn Acres – water turn-on order from Judge Hayman
   c) Limited area boil-water notice
   d) General Motors Water Issues

Not Responsive

Attachment: Steps to Prepare for Transition from Emergency Manager to Receivership Transition Advisory Board

PPI

Not Responsive

Not Responsive

Not Responsive

Not Responsive

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, September 02, 2014 8:31 AM
To: Byrne, Randall (Treasury); Kapp, Gene (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); West, Samantha (GOV); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Darnell Earley; Deasy, Thomas (MSP); Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Lee, Nichole (MSP); McGowan, Emmitt (MSP); Smith, Paul (GOV); Sands, Thomas (MSP); Sipes, Stephen (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Conference Call Agenda for 09/03/14
Attachments: Agenda & Attachments 090314 Conf Call with Treasury.pdf

Good morning,

Please find attached the agenda and attachment for the September 3rd, 9:00 am conference call.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00am Phone Conference Agenda
September 3, 2014

Not Responsive

7) **Water Issues**
   a) Glenn Acres – water turn-on order from Judge Hayman. Judge has put complex in hands of a receiver.

b) Limited area boil-water notice – resolved.
c) General Motors Water Issues – resolved. However, if this should become an issue for the GCDC with DWSD we would hope Treasury will be supportive of the GM-GCDC franchise customer agreement.

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

Not Responsive

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Monday, October 13, 2014 4:37 PM
To: Byrne, Randall (Treasury); Kapp, Gene (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Darnell Earley; Deasy, Thomas (MSP); Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); Hill, Darryl (MSP); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Lee, Nichole (MSP); McGowan, Emmitt (MSP); Smith, Paul (GOV); Sands, Thomas (MSP); Sipes, Stephen (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); West, Samantha (GOV)
Subject: Bi-Weekly Conference Call Agenda
Attachments: Agenda & Attachments 101514 Conf Call with Treasury.pdf

Good afternoon,

Please find attached the Agenda for the Wednesday, October 15th, 9:00 am conference call.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00am Phone Conference Agenda
October 15, 2014

Not Responsive

7) **Water Issues**
   a) Flint will continue to investigate why conditions develop which are favorable for more severe problems to occur. Pursuing these investigations may include seeking additional professional assistance to review both systems and processes. Whenever hydrants are

running to clear lines: new signs are posted to show intended water running. Major line breaks are announced through a press release and include estimated time to resolve.

b) General Motors Water Issues – working through lawyers at this point. We are close to a final agreement regarding their level as a customer with the City of Flint.

Not Responsive

City of Flint Strategic Plan

Quarterly Report

July 1, 2014 – September 30, 2014

CITY OF FLINT

OFFICE OF THE EMERGENCY MANAGER

Darnell Earley, ICMA-CM, MPA
Emergency Manager

DATE: October 10, 2014

TO: Scott Kincaid, President, Flint City Council
City Council

FROM: Darnell Earley, Emergency Manager
Dayne Walling, Mayor

RE: City of Flint Strategic Plan, First Quarter Report

Earlier this year, the City Council of Flint adopted a Strategic Plan for the City of Flint. This Plan announced a Vision, Mission, and Goals to guide the operation of the City government for the next five years, and was adopted in the context of the City's recently adopted Master Plan for the community. It was followed by a statement of budget priorities adopted by the City Council, and ultimately by a biennial budget for FY15 and FY16. The budget also projected the City's finances for the following three years – FY17, FY18, and FY19. During this same period a Deficit Elimination Plan and Reserve Accumulation Plan was approved by the State and a Seven Point Transition Management Plan was enacted to guide the way by which the operation of the City will be assumed by the Mayor and City Council . The integration of the Strategic Plan into the organizational processes of the City is a key component of the Seven Point Transition Management Plan.

In total, these actions comprise a broad framework guiding the direction of the Flint City government as it restores financial stability and once again becomes an active leader focused on making Flint a safe, secure city attractive to residents, businesses, students, and visitors.

The first quarter of FY15 ended on September 30, 2014. We are pleased to report on the progress which has been made. While significant progress has been made on many fronts, significant challenges and risks remain.

We wish to commend the Management Team and our employees for their dedicated efforts to move the City forward. We look forward to discussing the contents of the report with you.

Overview

The City of Flint has a vision and a plan and now it is focused on implementation in order to achieve a stronger and financially sound municipal government along with a safer and more stable community. To succeed, however, City leaders must follow the plan with discipline and commitment. They cannot stop halfway or leave work half-done—and everyone has an important role to play. Working together as a team, the City of Flint has been successful in the previous quarter in increasing public safety, improving infrastructure, creating jobs and development, eliminating blight, engaging citizens and managing financial and administrative challenges. Areas of success include:

- Law enforcement is working hard with growing community support and total homicide victims is down 18% compared with 2013.
- Utilities is managing with an eye toward the future and the construction of the KWA pipeline is underway, on time and within budget.
- Development activities have increased with new facilities under construction at GM Flint Assembly, on the Buick City brownfield site with American Pipe, and downtown in the Health and Wellness District.
- Blighted properties continue to be eliminated, using state and federal funds, and neighborhood volunteer groups have removed more than 2 million pounds of trash in major clean-up efforts.
- The General Fund deficit continues to be reduced, and the City's financial position is stabilized at least for the near term. Preliminary projections show the deficit as of June 30, 2014 to be $9 million, a reduction from $12.9 million the previous year.
- Revenues and expenses for the first quarter of FY15 are in line with expectations.
- Internal restructuring of the City continues at it strives to become efficient, effective, and customer service focused in an environment much smaller than in the past.
- The transition from state oversight to traditional home rule is underway, guided by the Seven Point Plan recently enacted. If progress continues as anticipated, the next step in transition will occur in 2015.

Challenges also continue. The transition from DWSD to the Flint River for the City's temporary supply of water until KWA is complete has occurred; however, the work of producing treated water has been complicated by the system's aging infrastructure and varying temperatures. A badly needed update to the City's web site is underway; progress has been delayed from initial completion targets as the selected vendor was unable to perform necessary tasks. The retiree lawsuit, whose outcome can seriously affect the financial solvency of the City, remains unresolved. Work continues to get done under difficult circumstances with limited resources, however the new strategic planning process is improving the City of Flint's productivity, responsiveness and accountability.

Assuring Accountability to Adopted Plans and Budget

The Strategic Plan for FY15-FY19 and the Biennial Budget for FY15 and FY16 charts the course for the Flint City government as it emerges from near financial insolvency and establishes itself as a municipal government providing residents, businesses, students and visitors public services in a customer friendly and financially responsible manner. Near term steps for achieving this have further been defined by a set of priorities set by the Mayor and City Council as the biennial

budget was adopted. Likewise, the Master Plan for a Sustainable Flint, adopted in October 2013 by the Flint City Council and the Flint Planning Commission, provides the framework for ongoing efforts to improve the community as a whole.

Achieving the outcomes desired will be a lengthy and ongoing process. Specific steps to move along this course have been outlined in a series of objectives to be accomplished over the next several years. The purpose of the quarterly report is to hold the City of Flint government accountable to the highlight progress as well as to identify areas of weak performance. The first quarter of FY15 ended on September 30, 2014, and progress has been assessed.

Highlights

Increasing Public Safety

A primary goal of the City is to assure a safe, secure, and healthy environment in which to live, work and play. Well-functioning police, fire and emergency response systems are essential to achieving this. While challenged significantly with less than adequate resources, progress has been made to improve public safety, thanks in part to the assistance and collaboration of the State Police:

- Incidence of Part One crime is down 13%, including a 28% reduction in the number of homicides.
- Response time for police and fire has been decreased
- The decision has been made that the City will rejoin the Genesee County 9-1-1 Consortium. Anticipated to occur by July 1, 2015, this action will result in enhanced service with access to updated technology and will provide some $1 million annually in reduced costs.
- Internal reorganizations and process improvements have been made in the Police and Fire departments to accommodate the reduced staffing made necessary by the City's financial condition. With the assistance of financial assistance from the state, the City is engaged in a comprehensive review of its police and fire structure to determine the most efficient and effective organization for the future.

Improving Infrastructure

A key goal of the City is to provide access to dependable and affordable water sewer, and waste. Another key goal is to assure an adequate and well maintained transportation network. The financial challenges of the past several years has left the City with significant need for reinvestment in virtually all of its infrastructure. While the challenge is enormous, positive steps have been taken:

- The first draft of the City's first comprehensive Capital Improvement Plan has been completed and will shortly be shared with the public for its input.
- The City has recently been notified that it will receive $750,000 in funding for roads, as contained in the new State budget. Planning for use of these funds is beginning, with the expectation that it will be used for badly needed road repairs in the spring.

- The construction of the KWA pipeline is underway, on time and within budget. The transition from DWSD to the Flint River for the City's temporary supply of water until KWA is complete has occurred; however, the work of producing treated water has been complicated by the system's aging infrastructure and varying temperatures.
- Concerns regarding the cost of water to Flint residents and businesses remains a high concern. Investigation of sources of water loss – both from theft and pipe leakage is ongoing. Reports of theft have resulted in criminal investigations, which are significant and ongoing. Several criminal complaints have resulted from the investigation and more are anticipated. Comprehensive programs of water meter replacement and leak detection are being developed.
- Construction will begin in October of a load out facility that will allow the city to shut down the incinerator and realize up to $400,000 a year in operational savings in the sewer fund.
- Investments in the underground utilities infrastructure are being finalized, utilizing budgeted funds for pipe replacement, pipe lining, and installation of technologically advanced water meters.
- Work is being planned to address the condition of city facilities. A contract has been signed to repair the employee and police parking lot and to replace the lighting with LED lights, while a process for evaluating potential energy savings at the Municipal complex is being finalized.

Creating Jobs and Development

One of the goals in the recently adopted Master Plan is to have a growing and diverse economy that spurs innovation and small business development along with an education system that prepares our workforce for jobs paying a livable wage. The Strategic Plan likewise commits the City to foster cooperation between businesses, higher education and medical institutions, nonprofit organizations and community groups to create jobs and development. It also identifies the need for the City to better define the role of the public sector in economic development and also to improve the business climate.

A number of business and community development initiatives are underway across the city.

- Development activities have increased as evidenced by revenues collected from building permits and rental inspections. These revenues are currently projected to exceed budgeted revenues by $300,000 by the end of the fiscal year.
- Increased capacity for compliance with the City's Rental Registration Ordinance is being put into place. A contract for services has been executed, with inspections planned to begin before November 1.
- A new Medical Marijuana ordinance has been enacted. Application forms and related materials are being developed.
- Aggressive pursuit of funding for specific projects promoting development has resulted in more than $4 million to the City, including some $2 million for the redevelopment of Chevy Commons, $1.6 million for reconstruction of Dupont Street. Other grants have been awarded for a revitalization plan the South Saginaw corridor, road diet and bike lanes for Harrison Street, and an analysis of housing for the downtown area.

- Smith Village Development - Of 39 new homes built, 21 have sold, there are six purchase agreements, and 12 are remaining to be sold.
- Gundry and Salem NSP1 Purchase-Rehab-Resale – 14 homes were rehabbed, there are seven purchase agreements, and one home has been sold. Six of the 12 deeds that are in litigation with a previous developer by order of the Court.
- 26 units of senior apartments were made available with the ribbon cutting of Oak Street Apartments, a repurposed closed school building. Renovation was kick started with City of Flint CDBG demolition funds.
- An assessment of the development capacity of Flint's network of Community Housing Development Organizations (CHDO) and Community Development Corporations (CDC) has been completed in partnership with Local Initiatives Support Corporation (LISC). A planning is now underway to determine how the network can support implementation of the city's Master Plan and Blight Elimination Framework.
- In partnership with the local community foundation, public library, community college, and non-profits, began a six month community planning process where over 200 volunteers and stakeholders will create a well-coordinated, integrated system for literacy service delivery that increases literacy levels through a well-managed coalition of organizations.
- The $2.3 Million Community Development Block Grant (CDBG) programming allocation has been implemented. This allocation supports $928,000 of blight elimination, $725,000 in housing rehabilitation and emergency repairs, $227,000 to increase literacy, $124,000 for victim advocacy and fair housing and $184,000 in youth initiatives.

Improving Parks

Encouraging partnerships for recreation and access to open space across the City is a key goal of the Strategic Plan. While City support of its park system has been minimal for the past several years, positive steps, and the creation of partnerships in particular, have been taken towards achieving this goal:

- All City parks are being mowed at least twice per month, and their progress monitored on a regular basis
- Partnerships have been formalized with the Crim Foundation for Basset Park; with Friends of Rollingwood for additional park improvements; with Genesee Conservation District for forestry services; and with Mott Community college for Kearsley Softball Field and the Longway Greenbelt.
- A partnership with Mott Park Association for golf course and clubhouse is being developed.
- Substantial progress on park improvements are occurring at Max Brandon, aided by $200,000 in grant funding.
- Grant funding has also aided improvements at McKinley, and fostered progress on the Grand Traverse Greenway.
- Other improvements are occurring at Thread Lake and Flint Park Lake through the Genesee County Parks Partnership.

- The City is working in partnership with stakeholders at Whaley, Berston, Dewey, Kearsley, Hasselbring and Brennan Parks to leverage additional funding and volunteer assistance to construct further improvements.
- The Senior Center leases have been completed for Hasselbring and Brennen, assuring that senior citizen programming will continue in the City.

Eliminating Blight

Eliminating blight within the next five years is one of the objectives incorporated into the Master Plan, and is recognized by the City as being critical to creating and maintaining a vibrant and growing community. To date:

- A draft Blight Elimination Framework has been developed and widely circulated for public input, reaching approximately 400 residents who have committed to its implementation. The City has committed to organizing its resources around this plan and has appropriated approximately $928,000 for blight elimination activities including the development of a code enforcement program, demolition, and coordination of extensive neighborhood clean ups.
- Several hundred citizen volunteers, working with Cities of Service, Clean & Green, and many neighborhood associations, have spent countless hours on many projects, including removal of more than 2 million pounds of trash from blighted areas, boarding of 575 vacant properties, and mowing some 12,500 properties a total of 28,000 times.
- Over $900,000 in CDBG allocations has been contracted to the Genesee County Land Bank for demolition of approximately 70 commercial and residential structures.
- $2.6 million in Hardest Hit funds were recently allocated to the City in partnership with the Land Bank to demolish some 225 homes in Civic Park. This funding is in addition to the nearly $23 million of both Michigan Blight Elimination and Hardest Hit Grant Funding for demolition of approximately 2,000 debilitated homes. The City has completed more than 1,500 Cut and Plugs in preparation for scheduled demolitions.
- An average of 240 Code Compliance issues are addressed monthly by the City's Blight Elimination Manager. 80% of these are resolved without further code enforcement action.
- The City has recruited 2 AmeriCorps VISTAs volunteers who will start in November and focus on implementation of the Blight Elimination Framework.

Engaging Citizens

An engaged citizenry is essential to creating and maintaining a vibrant growing community. Citizen engagement in Flint increased significantly over the past few years as the City engaged them in the development of the Master Plan. Master Plan implementation has continued to engage citizens, as have other activities fostered by the City:

- All Master Plan Implementation Task Groups have met twice, working on individual actions plans. The City will also be working with 41 neighborhood groups who have

been trained on assessment work and will complete the neighborhood inventory for housing and street lighting by mid-November.

- The Police Department has engaged citizens in several ways, including increased participation by its command officers in community meetings, and by partnership and participation in APLACT (Advocates and Leaders for Police and Community Trust).
- The Department has also expanded use of Blue Badge volunteers in many areas, such as the newly established Citizens Radio Patrol.
- The department also become an active user of social media, promoting Crime Stoppers and Operation Fresh Start, and creating a presence on Facebook and Twitter.
- The Fire Department has also increased its presence in the community through its "Knock and Talk" initiative.
- Citizen engagement has also been enhanced with the placement of national service teams in the City of Flint, one from the National Civilian Community Corps and one from VISTA. More than 800 volunteers have been engaged with these teams on various projects, including removal of more than 2 million pounds of trash from blighted areas, emergency preparedness education for more than 900 residents, and participation in the national day of service on 9/11.

Managing Financial Challenges

Operating in a financially sustainable manner is essential if the City is to achieve its Mission of assuring that residents, businesses, students and visitors receive municipal services in a customer friendly and financially responsible manner. While the City continues to address an accumulated General Fund deficit, significant legacy costs, and a continuing structural deficit, progress continues to be made:

- The General Fund deficit continues to be reduced, and the City's financial position is stabilized at least for the near term. Preliminary projections show the deficit as of June 30, 2014 to be $9 million, a reduction from $12.9 million the previous year. The City's cash position is adequate.
- A plan to eliminate the General Fund deficit no later than FY19 and to accumulate an adequate level of financial reserves no later than FY24 has been approved by the State.
- Revenues and expenses for the first quarter of FY15, which ended September 30, are generally in line with expectations.
- The City is vigorously pursuing external funding and resources to implement important projects in areas such as blight elimination, housing, and park improvements. More than $3 million has been received so far this year from federal agencies, state entities and community foundations, and additional applications are pending.

However, the legal challenge to changes made to retiree health care as part of restoring financial solvency continues. The June 30 decision by the Federal Court to permit the City to modify health care for retirees should provide some financial relief to the City while the case is being litigated. Should the City not prevail, however, the $5 million additional cost added to the FY15 budget will be continued, and may result in Flint's return to financial solvency becoming exceedingly difficult if not impossible

Improving Internal Operations

Achieving the goals set forth in the Strategic Plan will require a city organization that is efficient and effective, and capable of operating in an environment of limited resources. Elected leaders, appointed officials, and employees must be highly trained and professional, and place high priority on excellent customer service. Its organizational structures and process must be efficient, modern, and focused on results. Much remains to be done, but progress is being made:

- The search for an experienced professional City Administrator is underway, and several charter amendments are being considered by the voters, which would further enhance the efficiency of the government.
- A badly needed update to the City's web site is underway; progress has been delayed from initial completion targets as the selected vendor was unable to perform necessary tasks.
- A comprehensive review of City Ordinances is underway, with revisions in business licensing and zoning ordinances nearly complete.
- The organizational structure of the City has been revised to assure that capacity exists to implement the Master Plan.
- Professional development opportunities have been defined and are being provided for city staff. Current focuses include supervision and use of technology.
- An in-depth evaluation of the structure of the police and fire departments is underway with the goal of identifying the most efficient and effective structure for the delivery of public safety services.
- Nearly all labor contracts and personnel policies have been revised to improved organizational efficiency while containing short and long term costs associated with employee compensation.
- Review of the City's capacity to provide capacity and leadership in economic development is underway, including the potential of collaborative efforts with other entities.
- Reorganization of current staff positions to enhance constituent services is underway.
- Internal reorganizations and policy/procedure updates within the Police and Fire Departments have been enacted.
- The City's Emergency Management Plan has been updated.
- Reorganizations within the Utilities Division are being implemented to increase capacity to respond to maintenance and other needs.
- The Transportation Division has increased its capacity and lowered its costs to perform right-of-way maintenance activities by assigning casual skilled labor to work with street Maintenance crews.
- Agreement executed with Genesee County Conservation District to compile an inventory of street trees in order to develop a sustainable plan for the care and preservation of the urban street tree forestry.
- Improved processes for grant administration and compliance monitoring are being implemented
- Planning is leading an effort to fully utilize GIS capabilities to serve all departments.

- Asset management tools for Transportation and Utilities, such as GPS units, web reporting, and a new work order system, are scheduled for installation in the coming months.
- A city wide program to recognize employees is being evaluated. Currently, recognition programs exist on a departmental basis, including the Police Department, and a new program is scheduled for introduction in Department of Public Works.
- The Community and Economic Development Division continues to enact corrective actions, refine and adopt policies and procedures and provide technical assistance to sub-recipients for federal and state funded programs that reduce the potential repayment from historical HUD OIG monitoring findings and current Field Office and MSHDA monitoring, reducing exposure to General Fund for repayment.

Transitioning Back to Home Rule

The City has been under the jurisdiction of the State this time since November, 2011, as its financial condition placed it on the brink of insolvency. Much progress has been made to address that, and the focus is now preparing for the transition back to Home Rule. Progress to date includes:

- A 7 Point Plan enacted by the Emergency Manager identifies specific objectives to be accomplished in order for the transition to proceed
- Target completion dates have been identified for many of the steps
- Specific objectives which have been accomplished include approval of a Deficit Elimination Plan, initiation of the search for a City Administrator, completion of a report by the Blue Ribbon Committee and the placement of 5 Charter Amendments plus the question of forming a Charter Review Commission on the November ballot.

Conclusion

Progress is being made in accordance with the expectations of the Strategic Plan and its specific objectives. Significant steps are being taken to improve its financial condition and to restructure the organization to improve efficiency and effectiveness. Steps are also being taken to prepare the City for return to traditional Home Rule governance.

Not surprisingly, because this is a first quarter report, not all objectives have been completed, and some have yet to start. In addition, many of the objectives require significant amounts of time and energy to achieve.

The positive progress outlined in this report must be read in the context of the current overall condition of the City of Flint. The level of services currently provided by the City is marginal as it struggles to regain financial solvency. Flint continues to be challenged by population loss, relatively low per capita income, aging infrastructure, and an insufficient revenue stream to support a desired level of services. It still has a significant General Fund deficit to be addressed, along with significant legacy costs. And it still faces the possibility of insolvency should the challenge to changes in retiree health care prevail.

CITY OF FLINT
STRATEGIC PLAN

2014 -2019

Setting a Sustainable Course for the City of Flint

Quarterly Report

July 1, 2014 - September 30, 2014

CITY OF FLINT STRATEGIC PLAN

2015 -2019

Setting a Sustainable Course for the City of Flint

The Vision for the City Government of Flint

A well managed, financially stable, and accountable government focused on creating and maintaining a vibrant and growing community which will attract and retain residents, businesses, students, and visitors and improve our quality of life

The Mission of the City Government

To assure that residents, businesses, students and visitors in the City of Flint receive municipal services in a customer friendly and financially responsible manner

The Goals

In order to realize our Mission, businesses, students and visitors can expect that:

- The City will provide a highly trained and professional staff of elected leaders, appointed officials and employees
- The City will provide for a safe, secure, and healthy environment in which to live, work, learn and play
- The City will provide access to dependable and affordable water, sewer, and waste collection
- The City will provide access to an adequate and well maintained transportation network serving motorized, non-motorized, and pedestrian needs
- The City will foster cooperation between business, non-profit, foundation partners and residents to create a climate that supports community and economic development

The City government will also:

- Seek partnerships with Local, State and Federal governmental partners and other private entities in order to maximize efficiencies and resources in meeting its Mission
- Provide municipal services consistent with the City's Master Plan and also work with residents, businesses, and others to foster development of the City and its infrastructure in a manner consistent with its Master Plan
- Encourage partnerships for recreation and access to open space across the City
- Enforce building and occupancy codes and to aggressively work with others to address blighted conditions
- Assure that City ordinances and regulatory activities are consistent with the Master plan and supportive of economic development
- Operate in an open and financially sustainable manner, including improving citizen access, focusing on measurable results, improving the City's financial position, and eliminating accumulated deficits

GOVERNANCE AND ADMINISTRATION

VISION Statement

The City of Flint's Governance will adapt to change and be a model of professionalism, transparency, and sustainability in order to provide effective government to each of our City's residents (as written in the Charter Preamble).

MISSION Statement

The Executive Management and Elected Leadership Directs and guides the City government in order operate in an open and financially responsible manner, including improving citizen access, focusing on measurable results, improving the City's financial position, and eliminating accumulated deficits within the context of the City of Flint Master Plan.

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
EMERGENCY MANAGER		Promote vision, set priorities, and measure results	Formally assess City readiness for Transition Advisory Board and progress towards achievement of Seven-Point Plan	I
MAYOR & COUNCIL			Participate with MML and others on an ongoing basis in advocating for state reforms in municipal financing, including PP T and EVIP	C
	Management of City Government		Continue to participate with MML and partners with new legislative session in advocating for state reforms in municipal financing, including OPEB and Prop A	I
CITY ADMINISTRATOR	Chief Elected Official	Leadership: Provide direction, guidance and support to the leadership in the Departments of Public Safety, Planning & Development, Public Works, and Finance & Administration in order for the achievement of their goals and objectives	Reduce deficit by no less than $1.8 million by end of FY15, and each year thereafter in accord with City Deficit Elimination Plan; and continuing to accumulate an appropriate level of reserves	I
	Legislative Body of the City		Begin search for City Administrator	C
MAYOR			Formally assess dept head's progress on attaining objectives and then semi-annually thereafter	I
		Partnerships: Seek partnerships with local, state and federal governmental partners and other private entities in order to maximize efficiencies and resources in meeting the City's mission.	Conduct organizational review of all departments completing Public Safety in FY15 and Public Works in FY16	I
CITY COUNCIL			Resolve retiree healthcare lawsuit by December 31, 2015	I
			Conduct formal quarterly budget and strategic plan review with Council	I
HUMAN RELATIONS		Training: Prioritize attracting and retaining a highly trained and professional staff of elected leaders, appointed officials and employees by offering training opportunities, encouraging best practices, measuring performance and providing evaluations.	Complete assessment of Hurley's future as a community hospital	I
			Apply for 20 grants annually and receive $10 million in competitive/non-entitlement awards, beginning in FY15	I
CIVIL SERVICE/OMBUDSMAN			Secure ongoing financial and other support for public safety and blight, including city lock-up, for FY15-FY19	I
		Citizen Access: Manage municipal services in a customer friendly manner by providing public information, respond to constituent concerns	Develop proposals for 911 consolidation and courts consolidation	I
			Design citizen service system to process up to 500 requests each month	I
			All Council members and Mayor to attain MML Level Two certification	I
			Update the video capabilities of the City Council chambers to facilitate in-house recording, production and uploading of video	I
		Volunteer Service: Develop a culture of national service and community volunteering that demonstrates how the City and community priorities can be addressed through service solutions.	EM and Mayor to approve professional development training schedule for department heads	I
			EM and Mayor to approve professional development training schedule for employees, based on recommendations from department heads and Human Resources	I
			Updated web site to be implemented	I
		Climate for Growth: Foster cooperation among business, nonprofit, foundation partners and residents to create a climate that supports community and economic development	All appointments to City boards to be current	I
			Create 1,000 Volunteer opportunities annually	I
			Mayor/EM to implement policies and procedures for improving citizen access to City government	I
			Formally assess future city role in promoting economic and community development for consideration in FY16 budget	I

GOVERNANCE AND ADMINISTRATION

(cont)

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
CITY ATTORNEY				
CITY ATTORNEY'S OFFICE	Provide legal advice to Mayor, Council, City Administrator and Department Heads on matters of City business	Update City ordinances	Revised Business Licensing ordinance to be in effect on July 1, 2014; revised Zoning ordinance by November, 2014; schedule of remaining ordinance revisions to be developed by July 1, 2015	I
	Prosecutes violations of City Ordinances		Develop strategy and timeline for renegotiating Cable Franchise agreement (agreement expires December, 2016)	I
	Responds to FOIA requests	Provide for most cost effective means of litigation	Handle 95% of litigation in-house	C
	Advises in labor relations and employment relations issues		Implement program for increasing amount of delinquent collections	I
	Represents City in lawsuits and other legal matters	Develop and implement administrative efficiencies	Define proposed process for handling paper and digital files, including time frame for implementation	I
			Define process and procedures for improving standardization of procedures for common legal matters, including time frame for implementation	I
		Improve staff skill sets and working environment	Program for improving skill sets of all staff to be scheduled/implemented	I
			Proposal for improving the appearance of City Attorney's Office to be presented to Facilities	C

CITY CLERK				
CITY CLERK'S OFFICE	Records proceeding of City Council and other bodies	Maintains all records of meetings of City Council and its committees. Publishes notices of meetings and records minutes.	Define ongoing training needs of City Council staff, including law changes affecting legislative bodies (such as public notices, open meetings) and the Legistar cataloging system and implement training	I
	Provides administrative and professional support to City Council and other bodies		Review and update City Council's constituent complaint referral process	I
RECORDS	Custodian of City Records	Manages custody and retention of city records, including minutes of official bodies.	Release a RFP by January 1, 2015 seeking comprehensive proposals for analyzing the state of all City current and historical records and providing recommendations for preserving, cataloging, and accessing records, utilizing a records retention schedule, with implementation to begin in FY16.	N
	Codifies city ordinances every ten years		Assure orderly transition of the Licensing Division to the Planning & Development Department	I
ELECTIONS	Oversight of elections	Conducts elections in accordance with state law	Continue ongoing training calendar for Election Inspectors and City staff involved with elections.	I
		Maintains current and historical voter registration lists and related documents.	Secure State grant for polling accessibility study to meet ADA requirements and continue to seek public and non-profit grants for election related activities.	I

POLICE DEPARTMENT

VISION Statement

The Flint Police Department will be the anchor resource in a collaborative effort with the community, businesses and visitors to the City of Flint. We will provide model law enforcement services with an emphasis on innovation and technology.

MISSION Statement

The City of Flint Police Department is committed to protecting and serving all the people of our community with respect, fairness, and compassion.

Acting in partnership with our community to protect life and property, we strive to prevent crime and preserve peace, order and safety.

We will seek just solutions with honesty and integrity.

We encourage, need, and expect community involvement to work toward a mutual goal of enhancing the quality of life within our city.

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
POLICE				
ADMINISTRATION	Management & Planning	Utilize tangible departmental resources in an efficient and effective manner	Recommend vendor for Record Management System by October 1, 2014, and propose funding and implementation strategy for inclusion in FY16 budget	C
		Utilize tangible departmental resources in an efficient and effective manner	Establish criteria that identifies each supervisor's responsibilities in the supervision of their respective subordinates	C
		Institute fair and reliable performance accountability at all levels within the Flint Police Department	Review administrative responsibilities	C
		Utilize tangible departmental resources in an efficient and effective manner	Revitalize the Flint Police Department's Chaplain Corps.	I
	Community Policing	Implement a comprehensive impactful community involvement/engagement strategy	Launch FPD website.	C
		Implement a comprehensive impactful community involvement/engagement strategy	Acquire and implement an online Crime Mapping capability that is accessible to community members	C
		Implement a comprehensive impactful community involvement/engagement strategy	Develop, train, and implement a "Citizen's Radio Patrol" utilizing Blue Badge Volunteers in their respective neighborhoods	I
INVESTIGATIONS	Investigation of Crimes	Utilize tangible departmental resources in an efficient and effective manner	Evaluate call management strategies currently in place	C
		Utilize tangible departmental resources in an efficient and effective manner	Increase use of IB techs at crime scenes, develop latent prints and compare to files to ID perpetrators by June 30, 2015	N
		Utilize tangible departmental resources in an efficient and effective manner	Develop an informational document from the Detective Bureau to assist in identifying crime patterns	C
LOCKUP	Oversight of lock-up facility	Utilize tangible departmental resources in an efficient and effective manner	Move to have GCSD handle entire booking process eliminate IB techs from process	N
PATROL	Deployment of officers on patrol	Effective and efficient deployment of personnel based on calls for service and crime data to include (a) place based, (b) time based, and (c) offender based observations.	Reduce response time to calls for service by 8%	I

POLICE DEPARTMENT

(continued)

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
RECORDS/PROPERTY MANAGEMENT		Utilize tangible departmental resources in an efficient and effective manner	Develop a data driven strategy that can be utilized by Patrol Lieutenants through recurring reports	C
	Custody of police records and confiscated properties	Maintain and utilize effective and efficient call management strategies	Examine other alternatives as it relates to calls for service or criminal complaints	C
		Move to electronic property management	Complete refresh of property room	C
	IB section/ Property	Apply updated retention policy	Eliminate all unnecessary historical paper records in the Police Department	C
		Provide a training and qualification venue for FPD and explore the possibility of revenue generation if we rent out to other LE agencies in the area	Evaluate options and recommend location for new shooting range	N
	Department Management	To use all department empirical data effectively, and develop a department-wide goal of strategic thinking. Operationalize responses in functions and responsibilities of each level within the department to achieve the following:	A 20% reduction in Violent Part 1 crime	I
			Increase Community Policing efforts, measured by the MSU, proactive time study with an increase of 7-10%	I
Administration	Department Management	Increase community volunteers Blue Badge Program	Use Blue Badge as the portal to all volunteer efforts, including 1). Citizen Radio Patrol, 2). Chaplain Corps, 3). Service Center/Mini Station workers with a goal of 30% increase	N
Administration	Department Management	Increase use of Neighborhood Service Officer Program	Identify funding source to expand the NSO program in size and duties, specifically license compliance for problem businesses and scrap and secondhand merchants	C
Chief's Office	School Liaison	Increase and deploy School Resource Officer	Per the COPS grant Hire 6 Officers and deploy in the schools with the emphasis on the school and the community therein, focus on Safe routes and crimestoppers school program	I
Chief's Office	Department Management	Collaboration with Federal, State, and LE agencies that will result in continued crime reduction	1). Continue Partnership with FBI, ATF and USMS. 2). Partner with MSP, FFD, FANG on Arson squad. 3). Partner GCSO on Auto Theft Team (GAIN). Develop Area Crime Team with MSP and GCSO.	C
			Acquire and implement an online Crime Mapping capability that is accessible to community members	C
			Submit all requested materials from ICMA	C

VISION STATEMENT

The City of Flint 911 Department will be a fully functional Next Gen 911 system, accessible 24/7 from any device.

MISSION Statement

The City of Flint 911 Department is committed to serving our citizens, businesses and visitors with professional emergency services. We will continuously strive to improve our services in the most effective and efficient manner possible.

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
911			Reduce use of 911 for non-emergency calls by 25%	I
TELEPHONE ANSWERING & DISPATCH	Receives call and dispatches resources	Provide the best possible emergency telephone answering and dispatch purpose with available resources	Develop plan for Next Gen 911 technology, including telephone upgrade and console upgrade	N
	Maintains records and consoles	Provide prompt, courteous, and efficient customer service	Improve Response to incoming 911 and 7-digit calls by 10% and improve coordination with EMS dispatch	I
RECORDS MANAGEMENT	Management of 911 Center	Improve community group relationships through community outreach	Automate billing for structure fires	N
			Develop plan for Consolidation with Genesee County Consortium	I
ADMINISTRATION			Work with Human Resources to create a new employment roster	N
			Working with Fire Department, create program and process for utilizing Fire Fighters on light duty at 911	C
			Complete state required training for all employees	I
			Complete Tower construction	I
			Eliminate Provisional Appointments/Fill vacancies permanently	N
			Strengthen relations with community groups by participating in 24 meetings each year	I
			Implement Quality Assurance program	C

FIRE DEPARTMENT

VISION Statement

A community educated on all matters related to fire safety and fire protection resulting in minimal damage and injury from fire incidents.

MISSION Statement

Utilizing available resources, the Flint Fire Department will respond quickly and effectively to fire calls; and will lead efforts to educate the community on all matters relating to fire safety and protection.

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
FIRE	Department Management; coordination of emergency management activities within city		Maintain average fire response time under 9 minutes in FY2015 and develop plan to reduce response time in FY16 to less than 6 minutes	I
ADMINISTRATION & EMERGENCY MANAGEMENT		Provide the highest quality fire response/fire protection possible	Turnaround time for Fire Inspections to be 5 days or less	C
FIRE SUPPRESSION	Deployment of Fire Fighters to emergencies		Implement new organizational structure based on 75 full-time positions	C
FIRE INSPECTION & ARSON INVESTIGATION	Investigation of suspicious fires; conduct of commercial building inspections		100% Flint School children contacted and provided with fire safety and prevention program	N
		Engage children, students, and senior citizens in fire safety awareness and preparedness.	100% of Senior Centers provided with fire safety and prevention program	N
			100% of City Block Clubs provided fire safety and prevention program	N
COMMUNITY EDUCATION	Education of residents and businesses in fire prevention.		At least 4 times per year, the Fire Department will provide the community with information regarding fire safety and prevention	C
		Lead City wide emergency preparedness and response	Evaluate and define role of the Fire Department in Emergency Management, with report provided to EM	C
			Reduce energy in Fire Departments by 20%	I
			Continue progressive training once per week	I
			Continued training for Suppression Personnel as technology develops for today's high-tech environment	I
			Implement physical fitness program	I
			"Knock and Talk" Fire Suppression Crews and Prevention Staff to distribute Arson Reward literature to 100% of residents	I
			Educate juvenile firesetters by providing one-on-one discussion with 10 juveniles	I

68th DISTRICT COURT

VISION Statement

The 68th Judicial District Court will be a leader among Michigan Courts in the provision of quality service, equal access to a fair and effective system of justice, and protection of the public's safety.

MISSION Statement

The 68th Judicial District Court will provide timely, fair, and impartial justice in all matters properly presented to the Court.

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
DISTRICT COURT				
ADMINISTRATION	Overall Court Management	Provides the most efficient processing possible within the net current appropriation from the City	To comply with all Trial Court Performance Standards Annually, as dictated by the State Court Administrative Office	C
JUDICIAL PROCESSING	Courtroom activities		Improve Court collections-Annual increases by way of Amnesty and Collections Agency, comparing results at the end of each fiscal year to the previous year	I
PROBATION	Provides oversight of probationers		Re-establish Probation Department with (1) Probation Officer	I

PUBLIC WORKS

VISION Statement

The vision of the Public Works Department is to be a well managed and well trained workforce that utilizes all available resources, technology, and collaborative means to maintain the City's above and underground infrastructure and facilities.

MISSION Statement

The Public Works Department is committed to the development of qualified managers and workers with consistent ongoing training, data driven decisions, and the creation of new job performance measurables.

The DPW will aggressively engage in strategic local and state level partnerships while continuously implementing new and improved technologies, procedures, and policies.

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
UTILITIES	Water Treatment			
WATER TREATMENT PLANT	Water Distribution	Provide dependable and affordable water and sewer service to City residents and businesses.	Complete the electrical upgrades on Cedar Street Pumping Facility	I
WATER POLLUTION CONTROL	Distribution System Maintenance		Complete the engineering design work for the Hamilton Dam upgrades	I
WATER SERVICE CENTER	Sanitary Sewer Operation & Maintenance		Complete the rehabilitation of the Torrey Road Booster Station	I
	Storm Water Maintenance		Complete and implement a comprehensive pay scale evaluation for all WTP employees	I
	Dam Maintenance		Complete phase II (of III) of the WTP upgrade in preparation of transition to IUWA	I
	Water Turn On's/Off's	**Routine preventative maintenance program** - A program that includes written procedures, identification methods, scheduling, and measurable tracking.	Create GIS maps of utility assets (including base-layer)	N
	Cut & Plugs		Implement tracking program for main breaks and sink holes with monthly reporting	I
	Wastewater Treatment		Develop and implement a written and sustainable "water loss" program. Program is to target the identification of a "baseline" loss and create means to maintain a loss percentage of under 16%.	I
	Industrial Pretreatment Compliance		Replace 3,000 residential meters	I
			Develop and implement a written root control matrix to reduce infiltration into the sanitary sewer systems	I
			Develop a written pipe replacement matrix that uses multiple criteria to identify the priority pipes to replaced annually	I
		Long term Utilities planning - Continued implementation of objectives that increase the efficiency and sustainability of the Utility department, including the use of Blue/Green Infrastructure projects, right sizing neighborhood infrastructure, and shared services.	Identify a consultant to write the scope for a comprehensive energy audit of all Utility facilities and send RFP	I
			Develop list of shared service opportunities with Genesee County Drain Commissioner and setup a meeting schedule for talks	I
			Complete the de-commissioning of the incinerator and construction of a load out facility at the Wastewater Treatment Plant	I
			Complete the upgrade plan of turning methane gas from the digester into energy	I
		Increase community engagement, community input, and community awareness with Utility processes and procedures.	Complete the development and use of web site access for residents to report main breaks	I
			Complete Cut & Plug list for hardest hit demolitions	C
			Implement defined response time policy for WSC	N
			Develop capacity to effectuate 100% of non-pay water shut-off notices	C

PUBLIC WORKS
(continued)

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
TRANSPORTATION	Maintenance and repair of sidewalks	Implement processes, procedures and activities that enable the City to efficiently maintain and preserve a multi-modal transportation network that meets the needs of all motorists, pedestrians, and bicyclists.	Complete a sidewalk inventory that identifies the location and surface condition rating of all sidewalks within the City	N
STREET MAINTENANCE	Enforcement of Right-of-Way Ordinances		Implement a 50/50 Sidewalk Repair Program targeting enforcement of the Sidewalk Ordinance and repair of 500 sidewalk squares and repair of 1,000 squares	N
	Maintenance of City owned streets including paving, plowing and sweeping		Perform preventive maintenance activities on 15 miles of streets and pave 4.5 miles of streets in addition to preventive maintenance on another 15 miles of streets	I
	Maintenance of City street trees		Complete an inventory of city street trees	I
			Develop a Tree Maintenance plan that identifies the location of street trees, condition, risk factors, and schedule of planned maintenance activities over a six-year cycle	I
			Initiate a web-based application that will allow the public to electronically report pothole, street, street tree, and sidewalk complaints	C
CAPITAL PROJECTS ADMINISTRATION	Capital Improvement Projects (Planning and Management)		Develop and implement a written Public Participation Plan that details how the public will be engaged in the transportation planning process	N
			Invest $20,000 in non-motorized facilities by providing funding to secure preliminary engineering services for the Genesee Valley non-motorized trail project	C
			Develop a reconfiguration plan for Harrison Street and South Saginaw Street that includes facilities for multi-modal travel and traffic calming devices	I
			Identify a funding source to develop engineering plans to reopen Leith Street	N
TRAFFIC CONTROL	Maintenance of signs, traffic signals, and pavement markings	Install, maintain, repair, and utilize traffic control devices to facilitate the efficient movement of vehicles and people and to improve traffic flow, and communicate same to the public	Perform an audit of all signalized intersections to identify unwarranted traffic signals and implement a preventive maintenance plan for traffic signals	I
	Barricading Activities/Special Events		Perform regulatory and warning sign upgrades in 3 areas of the City in FY15 and an additional 3 areas each year thereafter	I
SANITATION (Contract Management)	collection, composting, and recycling	Assure the reliable and efficient collection and disposal of residential waste, compost, and recyclable materials.	Develop and execute a Compost Plan that will result in the processing and removal of compostable materials from the Chevy in the Hole site	C
			Issue Waste Collection Services RFP for new contract period	N
			Increase the City's recycling participation to 10% in FY15 and 12% in FY16	I
			Develop a recommendation on the feasibility of implementing a 96-gallon cart recycling program	I
			Monitor Waste Collection Services contractor's collection and disposal activities on a monthly basis to ensure compliance with contract provisions	I
			Formally evaluate performance of Waste Collection Services contractor	N
			Work with foundations, Police, and City partners to develop a new special event management protocol	C
			Provide timely instruction to public with respect to leaf collection process	C

PUBLIC WORKS
(continued)

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
FACILITY MAINTENANCE	Maintenance of city facilities and grounds	Right size city facilities by consolidating uses and recommending disposal of unneeded facilities	Complete disposition of Police Academy, Fire Station, FAEC, McKinley, and Park Supply buildings	I
	Planning for optimal facility usage		Elimination of unneeded storage and relocation of employees into a permanent workspace	I
	Facilitating use of city facilities	Plan for needed facility improvements that assures a clean, safe, and sanitary workplace environment for employees	Implement new staffing plan for Facility Maintenance	C
			Increase capacity for maintenance services through a wider network of support vendors	C
			Establish a contract management performance review that has a semi-annual written report	C
			Develop a comprehensive routine and preventive maintenance plan that documents areas of concern, structures the way we effectuate repairs, and supports the CIP	I
			Develop 5-year capital improvement plan for City facilities and update annually thereafter	C
		Adopt an energy efficiency and conservation policy that builds toward being carbon neutral	Replace exterior City Hall lights with LED's and motion sensors	I
			Identify a vendor and a funding mechanism to provide an energy evaluation of the City Hall campus, producing a 2015 energy "baseline" in which to measure progress.	I
			Modify 5-year Facility capital improvement plan annually prior to the budget presentation to Council	I
			Complete the transition of senior center operations to other entities contracting directly with the County for operational support	C

CHEVY COMMONS	Future usable green space		Infrastructure remediation and Storm Sewer discharge compliance	I
			Development and Construction of Phase 1 Green cap	I
			Implementation of USDA Phytoremediation $400k grant	I
			Events Management	C
			Implement compost operations DEQ Consent Decree	I

PLANNING AND DEVELOPMENT

VISION Statement

The Planning and Development Department will partner with residents, businesses, and visitors to implement the Master Plan and help transform Flint into a safe, vibrant, sustainable, and healthy city.

MISSION Statement

The Planning and Development Department is committed to ensuring the public safety, health, and well-being of Flint's residents, businesses and visitors through targeted investment and rational, well-designed and physically integrated land use and development that advances economic prosperity, eliminates blight and stabilizes neighborhoods, protects the environment, and promotes a better quality of life in the City.

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
CASE MANAGEMENT	Current Planning	Provide streamlined, business friendly plan review, permitting, property disposition, and business licensing in compliance with state and local laws in order to protect the health and welfare of the community.	Complete all plan reviews within 3 weeks and inspections within 72 hours	I
	Permitting		Implement a comprehensive form-based zoning code that streamlines the approval process for projects that adhere to the regulations	I
	Service Counter/Business Support		Process all planning applications within the prescribed time limits and minimize the number of discretionary cases to be reviewed quarterly thereafter	I
	Major Cases		Designate designated case manager to guide major projects through the City's determination process.	C
			Complete acquisition of the Grand Traverse Greenway Trail	I
			Coordinate with Redevelopment Ready Communities to reorganize department procedures to provide a seamless case management process for new and existing businesses to help facilitate redevelopment	I
	Business Licensing		Implement P & D management of business licensing ordinance	I
			Achieve 25% licensing compliance in FY16	N
			Achieve 50% licensing compliance in FY17	N
			Achieve 90% licensing compliance in FY18	N
BLIGHT ELIMINATION & NEIGHBORHOOD STABILIZATION	Code Enforcement	Eradicate blight in the City by 2020 and work with residents to stabilize Flint's neighborhoods.	Develop and implement a comprehensive code enforcement program	I
	Rental Registration		Implement an updated rental registration ordinance	N
			Achieve 25% rental registration compliance FY16	N
			Achieve 50% rental registration compliance FY17	N
			Achieve 90% rental registration compliance FY18	N
	Business License Enforcement		Secure funding and demolition assistance to demolish 1,200 homes and 90 commercial buildings each year for 5 years with progress measured annually	I
	Blight Elimination & Street Lighting Coordination		Secure formal commitment of at least 60 neighborhood groups and community organizations to maintain 2,000 vacant parcels	I

PLANNING AND DEVELOPMENT

(continued)

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
COMMUNITY DEVELOPMENT & ECONOMIC DEVELOPMENT	Neighborhood Planning	Create safe, healthy, and desirable neighborhoods near quality community services.	Comply with all HUD regulations and time submission requirements for all reports	I
	Small Neighborhood Projects		Implement a grants management system utilizing BS&A to better track performance	I
	Fair Housing		Provide ongoing technical assistance and training to all sub-recipients and sub-contractors to insure full compliance and timely processing of payments	I
	Historic Preservation		Process all requests for economic development support (tax abatements, etc.) within prescribed time frames, to be monitored quarterly	I
	Program Management (CDBG, HOME)		Complete Smith Village development	I
			Sell all Smith Village and NSP homes	I
			Define the ongoing role for city involvement in economic development and present budgetary request for consideration in FY16 budget	I
	Economic Development	Promote a growing and diverse economy that spurs innovation and small business development and prepares the workforce for today's jobs and those of the future.	Implement a formally defined CDBG allocation process that is transparent and advances the goals of the Master Plan	C
	Major Development Projects		Complete a formal written comprehensive housing investment strategy to include a housing program that provides rehabilitation and home buyer incentives to encourage residents to move to or remain in Flint	I
	Workforce Development		Secure other sources of grant funding for entire department to increase available revenue by 10% per year, beginning with FY15	I
	Small Business Development		Respond in a timely manner to requests for assistance in expanding existing or attracting new businesses, with particular focus on small businesses and brownfields	I
			Implement the EDC Deficit Elimination Plan	C
	Oak Business Center & EDC		Attract new businesses to Oak Business Center to reduce vacancy rate to less than 15%	I
			Secure a monitoring and compliance contractor to allow staff to focus on proactive community development	I
LONG RANGE PLANNING	Master Plan Implementation	Guide the update and implementation of the Master Plan and provide data-driven, technical expertise to city officials and the public on land use and development matters.	Develop a commercial investment framework based on the Master Plan	N
	Performance Management		In coordination with local, regional, and state economic development agencies, develop a formal long term strategy and role for the City government to help expand existing or attract new businesses, with particular focus on small businesses and brownfields; funding request to be presented for potential funding in FY16	I
	Transportation Planning		Create 8 subarea plans	I
	Public Safety Planning		Develop the City's first combined Capital Improvement Plan	I
	GIS Services		Hold annual engagement to discuss progress of Master Plan and solicit additional feedback on action plan	N
	Infrastructure Planning		Establish short-term (1-3 years) action plans for each chapter of the Master Plan	C
	Sustainability Planning		Develop between 10-15 neighborhood plans covering every residential area by 2020, at the rate of 20% per year	I
	Zone Changes		Develop a citywide sustainability plan	N
	Plan Amendments		Maintain on an ongoing basis updated demographic and housing data easily available to internal and external customers	I
			Develop a proposal for providing citywide Geographic Information Services to internal and external customers and implement plan	I
			Coordinate the implementation of at least 1 strategy in each chapter of the Master Plan every year, with progress measured annually	I
			Submit proposal to the EPA for a Brownfield Area wide Planning Grant or technical assistance grant to create a brownfield development for the area around the Chevy Commons	C
			Present blight elimination framework to the Planning Commission for adoption as part of the Master Plan implementation	I
			Begin update of the Master Plan	N
			Complete a formal written blight elimination framework for neighborhoods	C

			Implement structure within P&D which has responsibility for developing a plan for improving street lighting within the City for managing the lighting special assessment and payment of bills	

PLANNING AND DEVELOPMENT

(continued)

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
PARKS & OPEN SPACE	Parks Maintenance	Establish a new park management framework and secure resources necessary to maintain the City's parks and open spaces.	Refine the City's parks classification system and develop service standards that align with the MDNR and the needs and desires of the Flint community.	I
			Assure that all city parks are mowed at least twice per month based upon individual plan for land management; contractor performance to be reviewed on a quarterly basis.	C
	Parks Planning	Improve the ecological health of the City's parks and open spaces through responsible planning and development.	Complete a naturalization demonstration in Max Brandon Park and then 3 other parks	I
			Complete improvements to Riverbank Park and McKinley Park as specified in the MDNR grant	I
			Complete improvements to McKinley Park as specified in the MDNR grant	I
			Update the Parks and Recreation Master Plan with additional focus on park equity and enhancing recreational use of the Flint River and adjacent parks and open spaces	N
	Parks Partnership	Provide parks, open space, and recreation infrastructure that both meets the needs of the community and is maintainable by the City and its community partners.	Establish at least 3 "Adopt A Park" agreements every year; complete the establishment of the "Friends of Berston" group	I
			Work with the County to establish a joint maintenance agreement for at least one of the City's larger parks	C
	Parks Programming	Engage the Flint Community to support the programming and use of park and recreation facilities.	Develop a management plan for the City's 4 golf courses	I
			Develop the plan to adjust the CANUSA Games housing and field of play locations.	N
	Open Space		Submit at least one grant proposal each year for MDNR funding	C
	Trail Development		Complete construction of the Genesee Valley Trail	I

FINANCE AND ADMINISTRATION

VISION Statement

A robust division capable of meeting the external and internal needs of the City of Flint in the areas of finance, treasury, assessments, human resources, information technology, and fleet.

MISSION Statement

To manage the financial and administration division of the City of Flint through promoting fiscal responsibility and industry best practices in order to respond to the needs of the City of Flint with efficiency and timeliness.

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
FINANCE				
ACCOUNTING	Payroll Production & Reporting	Provides for a financially secure organization with sound business practices providing for the purchase of goods and services and financial reporting. Provides professional and technical advice to departments regarding financial and purchasing needs and on grant administration processes.	Reduce the General Fund deficit by $1.8 million in FY15	C
			Reduce the General Fund deficit by $1.8 million in FY16	N
	Vendor Management and Payment		Convert to new fixed asset accounting and develop fixed asset policy	I
			Review rates and master fee schedule to ensure they are appropriately set	N
AUDITING	Monitoring Financial Performance		Implement Finance Department reorganization	I
	Preparation of Financial Reports		Audit completed and filed with state	I
BUDGETING	Monitoring Grant Performance		Schedule and conduct 4 city wide finance and accounting training sessions	I
	Accounting for Revenues and Expenses		Establish and implement internship program for Finance	I
RISK MANAGEMENT	Development of Long Term Financial Projections, Deficit Elimination Plans and Strategies for Financial Solvency		Establish a paperless process for procuring goods and services	I
			Prepare a RPF for copier services in FY15 in time to allow issuance of request before contract expires in FY16	N
PURCHASING	Administration of Property and Liability Insurances		Provide recommendations for updating procurement policies to be used during and after transition and to increase efficiencies	I
	Selection and Monitoring of Benefit Program vendors		Increase the usage of P-cards to boost the City's annual rebate by 15%, progress to be measured regularly	I
GRANT ADMIN			Establish management expectations of turn-around time on vendor payments, purchasing requests, position filling requests, and other areas, monitor performance, beginning with FY15 first quarter results to be evaluated and monitored monthly.	I
			Establish formal process for reviewing, processing, and making timely decisions for applications on tax abatements	I
			Adopt stabilization ordinance and fund balance policy	I
			Establish expectations of turn-around time on purchasing requests and monitor performance, beginning with FY15 and evaluated quarterly.	I
TREASURY				
CUSTOMER SERVICE		Provides for a customer friendly accountable entity managing receipts and collections. Monitors collections of property taxes, income taxes, water and sewer, and other receivables to assess budgetary compliance.	Identify additional $500,000.00 to $1,000,000.00 in unreported income tax, utilizing the 2011 State income tax data.	N
			Increase the collection of delinquent taxes by 15-20% through continued efforts to collect delinquent income tax and personal property taxes and by new efforts to collect delinquent Miscellaneous Receivables and Water bills	N
DELINQUENT COLLECTIONS			Reorganize Customer Service to assure that after that time, that all utility bills are mailed two weeks prior to the due date, that checks are processed within 10 days from the postmark date, and that customer wait time in the office and on the phone are reduced by 25%	I
			Replace the current vendor for processing electronic payments with Point and Pay in order to allow the City to accept water, property tax, miscellaneous receivables, special assessment and permit payments electronically	C
			Install a kiosk in the City Hall lobby in order to allow the City to accept water, property tax, miscellaneous receivables, special assessment and permit payments electronically	I
			Create description of City's efforts to manage delinquent water accounts while obtaining the City's financial goals and assisting those who are facing financial hardships	N
			Implement electronic income tax withholding	I
			Update City efforts to assist those unable to pay for utilities	N
			Re-examine efforts to assist individuals to pay utility bills	N

			Establish and implement an ongoing schedule of "Customer Service", "Team Work" and "How to deal with difficult customer" training for all Treasury staff.	

FINANCE AND ADMINISTRATION

(continued)

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
ASSESSING				
ASSESSORS OFFICE	Assessing of Properties	Assures the assessment of properties within the City in a professional and equitable manner in conformance with state law and professional practices; addresses appeals of values to Board of Review; represents City at state level appeals.	Determine schedule of staff training in Assessing net as necessary and for annual compliance with state requirements during course of FY15 and annually thereafter.	C
	Administration of Valuation Appeals		Conduct comprehensive site inspections of residential and commercial tracts between April and November of each year in sufficient number annually to canvas 12 tracts annually.	I
	Processing of Poverty exemption requests		Secure contract to achieve the conversion of remaining hard copy records and drawings to digital format utilizing APEX and/or digital scanning, with financial plan submitted for FY16 budget.	I
	Provision of property and tax information to businesses and residents		Provide for the timely process of MTT appeals, and split/combination applications. 2012 and 2013 appeals will be completed by end of FY15 and appeals filed in 2014 will be resolved by end of FY16. The processing of splits and combination requests is required to be completed and of each year to be incorporated in the following year's assessment roll.	I
			Working with Facilities, finalize plan for relocating Assessing from its temporary site	I
	Maintenance of Property descriptions and tax rolls		Analyze options for lessening the workload impact of processing poverty exemption applications	C
			Participate with Planning and Development, IT, and others to develop the ongoing process for establishing and maintaining of the parcel layer for City GIS, and for providing GIS services to internal and external customers.	C

HUMAN RESOURCES			Utilize a master position list for confirming the need to recruit, promote or reduce employees	C
EMPLOYMENT	Recruitment and Selection	Recruit and oversee hiring of qualified employees in compliance with laws and ordinances	Update personnel rules and procedures, including ordinances	I
	Testing		Update testing protocols for recruitment/selection	I
	Contract Negotiations	Recommend changes in personnel polices and labor contracts	Complete and implement 1600 contract	C
			Complete and implement FPDA contract	I
			Complete and implement updated 1799 contract	I
			Complete and implement updated IAFF contract	N
			Complete and implement updated Capt/Lt contract	I
			Complete and implement Sergeants contract	I
	Employment law allegations		Inform department heads and supervisors of contract changes prior to implementation	C
LABOR RELATIONS	Grievances and Arbitrations	Train and assist departments in managing employees and resolving disputes	Answer 100% of all new grievances within required time frames, measured with quarterly reports	I
ENROLLMENT	Benefit administration	Enroll employees in payroll and benefit systems.	Complete and implement changes to Exempt and Appointed benefit programs	I
	Payroll enrollment and changes		Develop and implement ongoing training curriculum and schedule in conjunction with Department Heads	C
	FMLA oversight	Assure that city FMLA and worker safety policies and practices are in accord with law and properly administered	Implement new FMLA process	I
	Worker's Compensation Administration		Implement new EAP program	C
	MIOSHA/OSHA Administration		Redesign Occupational Health and Safety Program for the City	N
WORKERS SAFETY	Employee Clinic		Administrative policies/procedures to be updated	I

FINANCE AND ADMINISTRATION

(continued)

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
FLEET ADMINISTRATION SERVICE WRITING AND PARTS MANAGEMENT VEHICLE AND EQUIPMENT REPLACEMENT, ADDITION, DELETION VEHICLE AND EQUIPMENT REPAIR	Maintains fleet inventory	Complete and maintain a current fleet and equipment inventory	Monthly rental of Special Operations vehicles	I
			Evaluate and make recommendation of GPS tracking units for DPW AND Utilities vehicles	I
			Update the replacement schedule to reflect replaced, required, and disposed of vehicles and equipment, to be used in preparation of annual budget for annual budget preparation	N
			Jib Winch for Traffic bucket truck	I
			Purchase 10 Front Plows for DPW snow removal	I
			Purchase one-man Leaf Vac truck for Street Maintenance	I
			Evaluate use of farm equipment tractor rentals recommended by DPW for winter snow removal	I
			Dump trucks for Utilities/DPW snow removal	N
		Maintain vehicle/equipment replacement schedule	Add-on and auxiliary equipment for Enterprise Lease vehicles	N
			FY14 & FY15 Lease Vehicles and Equipment	I
			Complete 100% audit of City owned vehicles and equipment, including condition to be used in preparation of the annual budget	N
	Equips and repairs fleet	Complete 75% of work orders within 72 hours	Complete the Fleet Focus software upgrade, install a mechanic workstation and bar code labels in the Stock Room	I
			Complete a Stock Room audit and enter all parts into the Fleet Focus software program	I
		Maintain scheduled/actual preventative/maintenance ratio = 75%	Distribute to departments, PM and DOT schedule detailing responsibility of departments and drivers for daily inspections, compliance with DOT requirements, and maintenance responsibilities.	I
	Recommends specifications of vehicles and equipment to be purchased		Monitor department and driver compliance with PM and DOT schedules and responsibilities on a quarterly basis	N
		Sustain average vehicle availability rates above 70%	Complete the bid process for ODT and PM services for heavy equipment and passenger vehicles	I
			Complete the bid process for vendor repair services, including 24-hour emergency response	I
	Develops and maintains vehicle and equipment replacement schedule	By April 30, 2015, and annually thereafter, complete 100% audit of City owned vehicles and equipment, including condition, to be used in	Complete evaluation and develop schedule annual departmental training needs and tool purchases	I
			Complete the bid process for alternate emergency fuel source	N
			Complete the sale and removal of the unused fuel tank at the Police Northside Precinct	C
		Implement fuel program to minimize fuel storage and cost	Determine if the fuel tank at Parks & Rec is still needed at this facility and take action accordingly.	N
			Complete the removal of underground storage tanks at Fire Station #3 and determine if the above ground storage tank at Parks & Rec can be utilized there.	I
			Recommend fueling station needs at current site	N
		Improve interdepartmental communications of seasonal needs and expectations	Meet with all departments to discern fall and winter program needs.	C
			Meet with all departments annually to discern spring program needs.	N

FINANCE AND ADMINISTRATION

(continued)

DIVISIONS	FUNCTIONS	GOALS	KEY OBJECTIVES FY15 & FY16	STATUS
INFORMATION TECHNOLOGY			Implement Governance Model	I
	Oversees the design, purchase, implementation, and operation of the City's technology infrastructure, provides professional and technical advice to departments in utilization of technology, identifies and provides technology related training	To ensure internal and external customers have appropriate and reliable technology which enables them to achieve their goals in an efficient manner.	Complete implementation of BS&A.net (BS&A implementation contract complete)	I
			Develop and schedule implementation of a telecommunications infrastructure upgrade	I
			Establish and implement a Technology Training Calendar for all employees	I
			Install 22 new fully functioning mobile data computers	I
			Maintain uptime for internet and intra net by 95% of the time, as measured by quarterly reports	C
			Reduce the number of shadow access systems by 40% (base number as of May 1, 2014)	I
			First issue resolution and same day resolution achieved for 70% of Help Desk tickets, as measured by quarterly reports	C
			Recommend vendor for Record Management System and propose funding and implementation strategy for inclusion in FY16 budget	I
			Complete a federally compliant IT Disaster Recovery and Security Plan	N
			Complete a Mobile Device Readiness Assessment.	N
			Reduce telecommunication expenses by 30%	I
			Equip Mayor, Finance, South Bldg, Police and Fire Conference Rooms with access to technology	N
			Upgrade IT Training Room	I
			Develop plan to convert technology infrastructure to wireless	N
			Upgrade space housing IT servers etc.	N

CITY OF FLINT, MICHIGAN
Department of Finance

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1101 South Saginaw Street
Flint, MI 48502
(810) 766-7268 / (810) 766-8675 (fax)

Dayne Walling
Mayor

Darnell Earley, ICMA-CM, MPA
Emergency Manager

Gerald Ambrose
Finance Director

DATE: October 10, 2014

TO: Darnell Earley, Emergency Manager
Dayne Walling, Mayor
Flint City Council

FROM: Jerry Ambrose, Finance Director
Antonio Brown, Deputy Finance Director

RE: City of Flint Quarterly Financial Report
July 1, 2014 – September 30, 2014

The City of Flint's Strategic Plan envisions a "well managed financially stable, and accountable government focused on creating and maintaining a vibrant and growing community which will attract and retain residents, businesses, students and visitors and improve our quality of life."

Operating in a financially sustainable manner is a key component to achieving that vision. As part of this, a biennial budget has been adopted for fiscal years 2015 and 2016, and a commitment has been made to a regular and ongoing review of revenues and expenses. To this end, a quarterly report on the status of the City's budget will be provided to the Finance Committee on an ongoing basis.

Attached is a comparison of the City's budgeted revenues and expenses to actual revenues and expenses as of September 30, 2014.

In summary, at the end of the 1st quarter, the financial outlook for the remaining FY15 appears to be on track. In total, revenues and expenditures are generally meeting expectations. The City continues to make timely pension contributions and healthcare premium payment for both active employees and retirees.

Some further observations on the current budget status:

- In the General Fund, actual revenues are just above 20% of budgeted revenues. At the time of the report, however, the City had not received its portion of State Shared Revenues, and when those revenues are received (approximately $2.4 million), they will be accrued back to the 1st quarter.

- General Fund expenditures are reported at 22% of the budgeted expenditures, in line with expectations. However, it has been discovered that $13,000 in communications expenses was inadvertently deleted from the District Court budget. It will be necessary to consider an adjustment to the District Court budget to address this shortfall.

- Also, we continue to monitor the personnel expenses in the Police and Fire budgets to determine the budgetary impact that reducing staffing levels through attrition rather than layoffs at the beginning of the year will have. It appears that attrition is moving staffing levels down to the budgeted levels, with Fire already at its reduced level of 75, and Police currently at 121, with a target of 115. By the end of the second quarter we anticipate that the reduced levels will be met by then and in addition, we will have the results of the ICMA organizational and staffing study. We will also be beginning to receive a portion of the $1 million allocated for police and fire expenditures in the state budget. We presently anticipate that these funds will be sufficient to offset any shortfall in the personnel line items in these budgets. With the second quarter report, we will provide any necessary budget amendments in these areas.

- Special Revenue Funds, Major and Local Street Funds are operating below budgeted revenues and expenditures. Major Streets, Fund 202, revenues are down due to timing in which State revenues of the Gas and Weight Tax allocations have not been received as of the date of the report. Budgets in the Grant Funds, Funds 274, 295, and 296 reflect timing differences as well. The revenues in these funds have not been received as of the date of the report. In addition, it will be necessary to create a budget for Fund 297 to reflect the final expenditure of a COPS Hiring Grant, with funds carried over into the FY15 budget year.

- Revenues in the Building Safety and Inspections Fund (Fund 542) are coming in higher than anticipated for the first quarter of the year. This was due largely to the new construction of the paint shop on the General Motor's property expansion.

- Revenues in the Water and Sewer funds are coming in at 19% and 16% respectively in comparison to the budgeted totals. At the same time, expenditures are coming in a 13% and 11% of the budgeted totals. It appears that the trend of reduced water billings are continuing, and efforts are underway to increase compliance and to identify areas of water loss from leaks as well as from theft. Actual expenditures currently do not include many of the capital improvement projects that are budgeted this fiscal year. The DPW and the Finance Department will continue to closely monitor the Utilities revenues and expenditures to keep them in line.

- The June 30, 2014 ruling by the Federal Court which modified its injunction to allow the City to implement certain changes to retiree health care benefits should provide some financial relief to the City budget, at least for the time during which the matter is being litigated. However, at this time it is not possible to project the amount of relief from the $5 million which was added to the budget for retiree health care as a result of the Courts initial decision prohibiting any change to retiree health care. This is because implementing the approved changes will not be effective until November 1 because of the time necessary to incorporate the changes into the current plans. With the second quarter report, we anticipate being able to project the anticipated costs in comparison to the budgeted amounts.

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 101 - General Fund			
Revenues			
General government	45,232,924.00	9,182,371.13	20.76
Judicial	1,697,000.00	383,198.50	22.58
Police	3,792,257.55	627,168.15	16.54
Emergency dispatch	1,189,000.00	0.00	0.00
Fire	351,700.00	34,721.00	9.87
Building inspections	36,000.00	4,657.00	12.94
Transportation	0.00	482.00	100.00
Facilities and Maintenance	21,000.00	17,786.09	84.70
Transfers in	3,777,998.00	944,499.51	25.00
Deficit Reduction	(1,000,000.00)		0.00
TOTAL Revenues	55,097,879.55	11,194,883.38	20.32
Expenditures			
General government	28,187,133.14	5,381,889.95	19.09
Legislative	356,505.00	70,281.22	19.71
Judicial	4,099,999.48	1,451,818.49	35.41
Police	12,563,432.44	3,049,912.03	24.28
Emergency dispatch	2,604,021.00	598,041.26	22.97
Fire	6,177,803.16	1,471,430.53	23.82
Building inspections	395,276.70	66,974.87	16.94
Community development	292,007.15	46,491.27	15.92
Facilities and Maintenance	9,000.00	2,522.26	28.03
Transfers out	412,701.00	103,175.25	25.00
TOTAL Expenditures	55,097,879.07	12,242,537.13	22.22
Fund 101 - General Fund:			
TOTAL REVENUES	55,097,879.55	11,194,883.38	20.32
TOTAL EXPENDITURES	55,097,879.07	12,242,537.13	22.22
NET OF REVENUES & EXPENDITURES	0.48	(1,047,653.75)	

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 202 - Major Street Fund			
Revenues			
General government	6,366,549.69	786,053.03	12.35
Transportation	657,072.15	42,462.70	6.46
TOTAL Revenues	7,023,621.84	828,515.73	11.80
Expenditures			
General government	1,619,530.00	404,882.49	25.00
Transportation	5,285,469.17	657,822.39	12.45
Debt services - interest	8,550.69	8,550.32	100.00
Debt services - principal	110,071.98	110,069.80	100.00
TOTAL Expenditures	7,023,621.84	1,181,325.00	16.82
Fund 202 - Major Street Fund:			
TOTAL REVENUES	7,023,621.84	828,515.73	11.80
TOTAL EXPENDITURES	7,023,621.84	1,181,325.00	16.82
NET OF REVENUES & EXPENDITURES	0.00	(352,809.27)	100.00
Fund 203 - Local Street Fund			
Revenues			
General government	1,877,827.00	181,468.92	9.66
Transportation	724,762.00	9,845.29	1.36
Unclassified	91,870.00	0.00	0.00
TOTAL Revenues	2,694,459.00	191,314.21	7.10
Expenditures			
General government	448,391.00	112,097.74	25.00
Transportation	2,246,067.39	342,527.45	15.25
TOTAL Expenditures	2,694,458.39	454,625.19	16.87
Fund 203 - Local Street Fund:			
TOTAL REVENUES	2,694,459.00	191,314.21	7.10
TOTAL EXPENDITURES	2,694,458.39	454,625.19	16.87
NET OF REVENUES & EXPENDITURES	0.61	(263,310.98)	

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 205 - Public Safety			
Revenues			
General government	9,258,560.00	3,765,159.40	40.67
TOTAL Revenues	9,258,560.00	3,765,159.40	40.67
Expenditures			
General government	1,337,828.00	334,457.00	25.00
Police	2,690,340.00	276,200.86	10.27
Fire	5,230,392.00	888,285.16	16.98
TOTAL Expenditures	9,258,560.00	1,498,943.02	16.19
Fund 205 - Public Safety:			
TOTAL REVENUES	9,258,560.00	3,765,159.40	40.67
TOTAL EXPENDITURES	9,258,560.00	1,498,943.02	16.19
NET OF REVENUES & EXPENDITURES	0.00	2,266,216.38	100.00
Fund 207 - Police Fund			
Revenues			
General government	1,312,000.00	1,276,166.75	97.27
Police	93,180.00	0.00	0.00
TOTAL Revenues	1,405,180.00	1,276,166.75	90.82
Expenditures			
Police	1,378,103.87	290,299.25	21.07
TOTAL Expenditures	1,378,103.87	290,299.25	21.07
Fund 207 - Police Fund:			
TOTAL REVENUES	1,405,180.00	1,276,166.75	90.82
TOTAL EXPENDITURES	1,378,103.87	290,299.25	21.07
NET OF REVENUES & EXPENDITURES	27,076.13	985,867.50	3,641.09

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 208 - Park/Recreation Fund			
Revenues			
General government	393,000.00	319,010.92	81.17
Facilities and Maintenance	4,000.00	1,190.00	29.75
Transfers in	99,140.00	24,785.01	25.00
TOTAL Revenues	496,140.00	344,985.93	69.53
Expenditures			
Facilities and Maintenance	496,140.00	88,949.02	17.93
TOTAL Expenditures	496,140.00	88,949.02	17.93
Fund 208 - Park/Recreation Fund:			
TOTAL REVENUES	496,140.00	344,985.93	69.53
TOTAL EXPENDITURES	496,140.00	88,949.02	17.93
NET OF REVENUES & EXPENDITURES	0.00	256,036.91	100.00
Fund 213 - Park & Recreation Senior Citizen Centers			
Revenues			
General government	6,000.00	0.00	0.00
Facilities and Maintenance	60,000.00	14,760.38	24.60
TOTAL Revenues	66,000.00	14,760.38	22.36
Expenditures			
Facilities and Maintenance	60,000.00	29,871.88	49.79
TOTAL Expenditures	60,000.00	29,871.88	49.79
Fund 213 - Park & Recreation Senior Citizen Centers:			
TOTAL REVENUES	66,000.00	14,760.38	22.36
TOTAL EXPENDITURES	60,000.00	29,871.88	49.79
NET OF REVENUES & EXPENDITURES	6,000.00	(15,111.50)	251.86
Fund 219 - Street Light			
Revenues			
General government	2,694,869.62	2,766,715.28	102.67
TOTAL Revenues	2,694,869.62	2,766,715.28	102.67
Expenditures			
General government	12,153.00	30,288.24	249.22
Transportation	2,682,716.62	407,662.05	15.20
TOTAL Expenditures	2,694,869.62	437,950.29	16.25
Fund 219 - Street Light:			
TOTAL REVENUES	2,694,869.62	2,766,715.28	102.67
TOTAL EXPENDITURES	2,694,869.62	437,950.29	16.25
NET OF REVENUES & EXPENDITURES	0.00	2,328,764.99	100.00

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 226 - Rubbish Collection Fund			
Revenues			
General government	5,395,794.00	5,617,844.04	104.12
Public works	500.00	22,719.72	4,543.94
TOTAL Revenues	5,396,294.00	5,640,563.76	104.53
Expenditures			
General government	887,554.00	221,888.50	25.00
Transportation	150,000.00	2,510.00	1.67
Public works	4,358,739.36	1,067,591.49	24.49
TOTAL Expenditures	5,396,293.36	1,291,989.99	23.94
Fund 226 - Rubbish Collection Fund:			
TOTAL REVENUES	5,396,294.00	5,640,563.76	104.53
TOTAL EXPENDITURES	5,396,293.36	1,291,989.99	23.94
NET OF REVENUES & EXPENDITURES	0.64	4,348,573.77	
Fund 265 - Drug Law Enforcement Fund			
Revenues			
General government	321,562.82	0.00	0.00
Police	117,500.00	6,298.23	5.36
TOTAL Revenues	439,062.82	6,298.23	1.43
Expenditures			
Police	425,062.82	102,611.49	24.14
TOTAL Expenditures	425,062.82	102,611.49	24.14
Fund 265 - Drug Law Enforcement Fund:			
TOTAL REVENUES	439,062.82	6,298.23	1.43
TOTAL EXPENDITURES	425,062.82	102,611.49	24.14
NET OF REVENUES & EXPENDITURES	14,000.00	(96,313.26)	687.95

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 274 - HUD CDBG, ESG, & HOME GRANTS			
Revenues			
General government	215,349.80	100.00	0.05
Fire	14,765.50	0.00	0.00
Building inspections	782,484.86	0.00	0.00
Transportation	307,422.33	0.00	0.00
Community development	10,494,206.16	69,772.71	0.66
Unclassified	20,010.02	0.00	0.00
TOTAL Revenues	11,834,238.67	69,872.71	0.59
Expenditures			
General government	215,349.80	30,938.81	14.37
Fire	14,765.50	0.00	0.00
Building inspections	782,484.86	6,682.66	0.85
Transportation	307,422.33	6,145.68	2.00
Community development	10,494,206.16	544,772.19	5.19
Unclassified	20,010.02	0.00	0.00
TOTAL Expenditures	11,834,238.67	588,539.34	4.97
Fund 274 - HUD CDBG, ESG, & HOME GRANTS :			
TOTAL REVENUES	11,834,238.67	69,872.71	0.59
TOTAL EXPENDITURES	11,834,238.67	588,539.34	4.97
NET OF REVENUES & EXPENDITURES	0.00	(518,666.63)	100.00
Fund 295 - Section 108 Loans			
Revenues			
Community development	664,625.00	795,541.46	119.70
TOTAL Revenues	664,625.00	795,541.46	119.70
Expenditures			
Community development	966,617.00	802,969.24	83.07
TOTAL Expenditures	966,617.00	802,969.24	83.07
Fund 295 - Section 108 Loans:			
TOTAL REVENUES	664,625.00	795,541.46	119.70
TOTAL EXPENDITURES	966,617.00	802,969.24	83.07
NET OF REVENUES & EXPENDITURES	(301,992.00)	(7,427.78)	2.46

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 296 - Other Grants Fund			
Revenues			
General government	14,661.97	0.00	0.00
Police	2,703,720.08	153,202.62	5.67
Community development	638,585.16	369,016.92	57.79
Facilities and Maintenance	1,057,076.23	67,523.18	6.39
Public works	50,000.00	49,730.00	99.46
TOTAL Revenues	4,464,043.44	639,472.72	14.32
Expenditures			
General government	14,661.97	0.00	0.00
Police	2,703,720.08	855,488.29	31.64
Community development	638,585.16	77,588.27	12.15
Facilities and Maintenance	1,057,076.23	14,111.08	1.33
Public works	50,000.00	0.00	0.00
TOTAL Expenditures	4,464,043.44	947,187.64	21.22
Fund 296 - Other Grants Fund:			
TOTAL REVENUES	4,464,043.44	639,472.72	14.32
TOTAL EXPENDITURES	4,464,043.44	947,187.64	21.22
NET OF REVENUES & EXPENDITURES	0.00	(307,714.92)	100.00
Fund 297 - Federal Stimulus Fund			
Revenues			
Community development	0.00	87,662.04	100.00
TOTAL Revenues	0.00	87,662.04	100.00
Expenditures			
Community development	0.00	87,662.04	100.00
TOTAL Expenditures	0.00	87,662.04	100.00
Fund 297 - Federal Stimulus Fund:			
TOTAL REVENUES	0.00	87,662.04	100.00
TOTAL EXPENDITURES	0.00	87,662.04	100.00
NET OF REVENUES & EXPENDITURES	0.00	0.00	0.00

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 301 - General Debt Serv(Voted Bonds)			
Revenues			
Transfers in	726,953.00	0.00	0.00
TOTAL Revenues	726,953.00	0.00	0.00
Expenditures			
Debt services - interest	260,000.00	0.00	0.00
Debt services - principal	466,953.00	0.00	0.00
TOTAL Expenditures	726,953.00	0.00	0.00
Fund 301 - General Debt Serv(Voted Bonds):			
TOTAL REVENUES	726,953.00	0.00	0.00
TOTAL EXPENDITURES	726,953.00	0.00	0.00
NET OF REVENUES & EXPENDITURES	0.00	0.00	0.00
Fund 402 - Public Improvement Fund			
Revenues			
General government	2,083,000.00	1,595,223.34	76.58
Unclassified	767,957.00	0.00	0.00
TOTAL Revenues	2,850,957.00	1,595,223.34	55.95
Expenditures			
General government	721,900.00	0.00	0.00
Transfers out	726,953.00	0.00	0.00
Debt services - interest	407,104.00	0.00	0.00
Debt services - principal	195,000.00	0.00	0.00
Public works	800,000.00	200,000.01	25.00
TOTAL Expenditures	2,850,957.00	200,000.01	7.02
Fund 402 - Public Improvement Fund:			
TOTAL REVENUES	2,850,957.00	1,595,223.34	55.95
TOTAL EXPENDITURES	2,850,957.00	200,000.01	7.02
NET OF REVENUES & EXPENDITURES	0.00	1,395,223.33	100.00

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 542 - Building Inspection Fund			
Revenues			
General government	400,968.00	0.00	0.00
Building inspections	1,681,000.00	1,394,384.50	82.95
Transfers in	313,561.00	78,390.24	25.00
TOTAL Revenues	2,395,529.00	1,472,774.74	61.48
Expenditures			
General government	1,127,233.00	281,772.75	25.00
Building inspections	1,268,295.98	199,584.46	15.74
TOTAL Expenditures	2,395,528.98	481,357.21	20.09
Fund 542 - Building Inspection Fund:			
TOTAL REVENUES	2,395,529.00	1,472,774.74	61.48
TOTAL EXPENDITURES	2,395,528.98	481,357.21	20.09
NET OF REVENUES & EXPENDITURES	0.02	991,417.53	
Fund 590 - Sewer Fund			
Revenues			
Transfers in	0.00	200,000.01	100.00
Unclassified	3,365,101.75	0.00	0.00
Utilities	28,126,894.00	5,350,096.52	19.02
TOTAL Revenues	31,491,995.75	5,550,096.53	17.62
Expenditures			
General government	5,654,386.00	1,408,436.86	24.91
Transfers out	1,860,000.00	465,000.00	25.00
Debt services - interest	695.21	0.00	0.00
Debt services - principal	6,016.23	1,665.36	27.68
Public works	1,990,000.00	0.00	0.00
Utilities	21,980,898.31	2,361,741.13	10.74
TOTAL Expenditures	31,491,995.75	4,236,843.35	13.45
Fund 590 - Sewer Fund:			
TOTAL REVENUES	31,491,995.75	5,550,096.53	17.62
TOTAL EXPENDITURES	31,491,995.75	4,236,843.35	13.45
NET OF REVENUES & EXPENDITURES	0.00	1,313,253.18	100.00

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 591 - Water Fund			
Revenues	3,150,000.00	8,251.60	0.26
General government	37,886,000.00	6,217,326.13	16.41
Utilities	41,036,000.00	6,225,577.73	15.17
TOTAL Revenues			
Expenditures	5,762,876.00	1,435,671.33	24.91
General government	3,768,071.00	282,500.01	7.50
Transfers out	3,190,000.00	0.00	0.00
Public works	24,932,583.15	2,268,352.43	9.10
Utilities	37,653,530.15	3,986,523.77	10.59
TOTAL Expenditures			
Fund 591 - Water Fund:	41,036,000.00	6,225,577.73	15.17
TOTAL REVENUES	37,653,530.15	3,986,523.77	10.59
TOTAL EXPENDITURES	3,382,469.85	2,239,053.96	66.20
NET OF REVENUES & EXPENDITURES			
	180,036,408.69	**42,465,584.32**	**23.59**
TOTAL REVENUES - ALL FUNDS	**176,908,852.96**	**28,950,184.86**	**16.36**
TOTAL EXPENDITURES - ALL FUNDS	**3,127,555.73**	**13,515,399.46**	
NET OF REVENUES & EXPENDITURES			

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 101 - General Fund			
Revenues			
General government	45,232,924.00	9,182,371.13	20.76
Judicial	1,697,000.00	383,198.50	22.58
Police	3,792,257.55	627,168.15	16.54
Emergency dispatch	1,189,000.00	0.00	0.00
Fire	351,700.00	34,721.00	9.87
Building inspections	36,000.00	4,657.00	12.94
Transportation	0.00	482.00	100.00
Facilities and Maintenance	21,000.00	17,786.09	84.70
Transfers in	3,777,998.00	944,499.51	25.00
Deficit Reduction	(1,000,000.00)		0.00
TOTAL Revenues	55,097,879.55	11,194,883.38	20.32
Expenditures			
General government	28,187,133.14	5,381,889.95	19.09
Legislative	356,505.00	70,281.22	19.71
Judicial	4,099,999.48	1,451,818.49	35.41
Police	12,563,432.44	3,049,912.03	24.28
Emergency dispatch	2,604,021.00	598,041.26	22.97
Fire	6,177,803.16	1,471,430.53	23.82
Building inspections	395,276.70	66,974.87	16.94
Community development	292,007.15	46,491.27	15.92
Facilities and Maintenance	9,000.00	2,522.26	28.03
Transfers out	412,701.00	103,175.25	25.00
TOTAL Expenditures	55,097,879.07	12,242,537.13	22.22
Fund 101 - General Fund:			
TOTAL REVENUES	55,097,879.55	11,194,883.38	20.32
TOTAL EXPENDITURES	55,097,879.07	12,242,537.13	22.22
NET OF REVENUES & EXPENDITURES	0.48	(1,047,653.75)	

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 202 - Major Street Fund			
Revenues			
General government	6,366,549.69	786,053.03	12.35
Transportation	657,072.15	42,462.70	6.46
TOTAL Revenues	7,023,621.84	828,515.73	11.80
Expenditures			
General government	1,619,530.00	404,882.49	25.00
Transportation	5,285,469.17	657,822.39	12.45
Debt services - interest	8,550.69	8,550.32	100.00
Debt services - principal	110,071.98	110,069.80	100.00
TOTAL Expenditures	7,023,621.84	1,181,325.00	16.82
Fund 202 - Major Street Fund:			
TOTAL REVENUES	7,023,621.84	828,515.73	11.80
TOTAL EXPENDITURES	7,023,621.84	1,181,325.00	16.82
NET OF REVENUES & EXPENDITURES	0.00	(352,809.27)	100.00
Fund 203 - Local Street Fund			
Revenues			
General government	1,877,827.00	181,468.92	9.66
Transportation	724,762.00	9,845.29	1.36
Unclassified	91,870.00	0.00	0.00
TOTAL Revenues	2,694,459.00	191,314.21	7.10
Expenditures			
General government	448,391.00	112,097.74	25.00
Transportation	2,246,067.39	342,527.45	15.25
TOTAL Expenditures	2,694,458.39	454,625.19	16.87
Fund 203 - Local Street Fund:			
TOTAL REVENUES	2,694,459.00	191,314.21	7.10
TOTAL EXPENDITURES	2,694,458.39	454,625.19	16.87
NET OF REVENUES & EXPENDITURES	0.61	(263,310.98)	

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 205 - Public Safety			
Revenues			
General government	9,258,560.00	3,765,159.40	40.67
TOTAL Revenues	9,258,560.00	3,765,159.40	40.67
Expenditures			
General government	1,337,828.00	334,457.00	25.00
Police	2,690,340.00	276,200.86	10.27
Fire	5,230,392.00	888,285.16	16.98
TOTAL Expenditures	9,258,560.00	1,498,943.02	16.19
Fund 205 - Public Safety:			
TOTAL REVENUES	9,258,560.00	3,765,159.40	40.67
TOTAL EXPENDITURES	9,258,560.00	1,498,943.02	16.19
NET OF REVENUES & EXPENDITURES	0.00	2,266,216.38	100.00
Fund 207 - Police Fund			
Revenues			
General government	1,312,000.00	1,276,166.75	97.27
Police	93,180.00	0.00	0.00
TOTAL Revenues	1,405,180.00	1,276,166.75	90.82
Expenditures			
Police	1,378,103.87	290,299.25	21.07
TOTAL Expenditures	1,378,103.87	290,299.25	21.07
Fund 207 - Police Fund:			
TOTAL REVENUES	1,405,180.00	1,276,166.75	90.82
TOTAL EXPENDITURES	1,378,103.87	290,299.25	21.07
NET OF REVENUES & EXPENDITURES	27,076.13	985,867.50	3,641.09

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 208 - Park/Recreation Fund			
Revenues			
General government	393,000.00	319,010.92	81.17
Facilities and Maintenance	4,000.00	1,190.00	29.75
Transfers in	99,140.00	24,785.01	25.00
TOTAL Revenues	496,140.00	344,985.93	69.53
Expenditures			
Facilities and Maintenance	496,140.00	88,949.02	17.93
TOTAL Expenditures	496,140.00	88,949.02	17.93
Fund 208 - Park/Recreation Fund:			
TOTAL REVENUES	496,140.00	344,985.93	69.53
TOTAL EXPENDITURES	496,140.00	88,949.02	17.93
NET OF REVENUES & EXPENDITURES	0.00	256,036.91	100.00
Fund 213 - Park & Recreation Senior Citizen Centers			
Revenues			
General government	6,000.00	0.00	0.00
Facilities and Maintenance	60,000.00	14,760.38	24.60
TOTAL Revenues	66,000.00	14,760.38	22.36
Expenditures			
Facilities and Maintenance	60,000.00	29,871.88	49.79
TOTAL Expenditures	60,000.00	29,871.88	49.79
Fund 213 - Park & Recreation Senior Citizen Centers:			
TOTAL REVENUES	66,000.00	14,760.38	22.36
TOTAL EXPENDITURES	60,000.00	29,871.88	49.79
NET OF REVENUES & EXPENDITURES	6,000.00	(15,111.50)	251.86
Fund 219 - Street Light			
Revenues			
General government	2,694,869.62	2,766,715.28	102.67
TOTAL Revenues	2,694,869.62	2,766,715.28	102.67
Expenditures			
General government	12,153.00	30,288.24	249.22
Transportation	2,682,716.62	407,662.05	15.20
TOTAL Expenditures	2,694,869.62	437,950.29	16.25
Fund 219 - Street Light:			
TOTAL REVENUES	2,694,869.62	2,766,715.28	102.67
TOTAL EXPENDITURES	2,694,869.62	437,950.29	16.25
NET OF REVENUES & EXPENDITURES	0.00	2,328,764.99	100.00

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 226 - Rubbish Collection Fund			
Revenues			
General government	5,395,794.00	5,617,844.04	104.12
Public works	500.00	22,719.72	4,543.94
TOTAL Revenues	5,396,294.00	5,640,563.76	104.53
Expenditures			
General government	887,554.00	221,888.50	25.00
Transportation	150,000.00	2,510.00	1.67
Public works	4,358,739.36	1,067,591.49	24.49
TOTAL Expenditures	5,396,293.36	1,291,989.99	23.94
Fund 226 - Rubbish Collection Fund:			
TOTAL REVENUES	5,396,294.00	5,640,563.76	104.53
TOTAL EXPENDITURES	5,396,293.36	1,291,989.99	23.94
NET OF REVENUES & EXPENDITURES	0.64	4,348,573.77	
Fund 265 - Drug Law Enforcement Fund			
Revenues			
General government	321,562.82	0.00	0.00
Police	117,500.00	6,298.23	5.36
TOTAL Revenues	439,062.82	6,298.23	1.43
Expenditures			
Police	425,062.82	102,611.49	24.14
TOTAL Expenditures	425,062.82	102,611.49	24.14
Fund 265 - Drug Law Enforcement Fund:			
TOTAL REVENUES	439,062.82	6,298.23	1.43
TOTAL EXPENDITURES	425,062.82	102,611.49	24.14
NET OF REVENUES & EXPENDITURES	14,000.00	(96,313.26)	687.95

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 274 - HUD CDBG, ESG, & HOME GRANTS			
Revenues			
General government	215,349.80	100.00	0.05
Fire	14,765.50	0.00	0.00
Building inspections	782,484.86	0.00	0.00
Transportation	307,422.33	0.00	0.00
Community development	10,494,206.16	69,772.71	0.66
Unclassified	20,010.02	0.00	0.00
TOTAL Revenues	11,834,238.67	69,872.71	0.59
Expenditures			
General government	215,349.80	30,938.81	14.37
Fire	14,765.50	0.00	0.00
Building inspections	782,484.86	6,682.66	0.85
Transportation	307,422.33	6,145.66	2.00
Community development	10,494,206.16	544,772.19	5.19
Unclassified	20,010.02	0.00	0.00
TOTAL Expenditures	11,834,238.67	588,539.34	4.97
Fund 274 - HUD CDBG, ESG, & HOME GRANTS:			
TOTAL REVENUES	11,834,238.67	69,872.71	0.59
TOTAL EXPENDITURES	11,834,238.67	588,539.34	4.97
NET OF REVENUES & EXPENDITURES	0.00	(518,666.63)	100.00
Fund 295 - Section 108 Loans			
Revenues			
Community development	664,625.00	795,541.46	119.70
TOTAL Revenues	664,625.00	795,541.46	119.70
Expenditures			
Community development	966,617.00	802,969.24	83.07
TOTAL Expenditures	966,617.00	802,969.24	83.07
Fund 295 - Section 108 Loans:			
TOTAL REVENUES	664,625.00	795,541.46	119.70
TOTAL EXPENDITURES	966,617.00	802,969.24	83.07
NET OF REVENUES & EXPENDITURES	(301,992.00)	(7,427.78)	2.46

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 296 - Other Grants Fund			
Revenues			
General government	14,661.97	0.00	0.00
Police	2,703,720.08	153,202.62	5.67
Community development	638,585.16	369,016.92	57.79
Facilities and Maintenance	1,057,076.23	67,523.18	6.39
Public works	50,000.00	49,730.00	99.46
TOTAL Revenues	4,464,043.44	639,472.72	14.32
Expenditures			
General government	14,661.97	0.00	0.00
Police	2,703,720.08	855,488.29	31.64
Community development	638,585.16	77,588.27	12.15
Facilities and Maintenance	1,057,076.23	14,111.08	1.33
Public works	50,000.00	0.00	0.00
TOTAL Expenditures	4,464,043.44	947,187.64	21.22
Fund 296 - Other Grants Fund:			
TOTAL REVENUES	4,464,043.44	639,472.72	14.32
TOTAL EXPENDITURES	4,464,043.44	947,187.64	21.22
NET OF REVENUES & EXPENDITURES	0.00	(307,714.92)	100.00
Fund 297 - Federal Stimulus Fund			
Revenues			
Community development	0.00	87,662.04	100.00
TOTAL Revenues	0.00	87,662.04	100.00
Expenditures			
Community development	0.00	87,662.04	100.00
TOTAL Expenditures	0.00	87,662.04	100.00
Fund 297 - Federal Stimulus Fund:			
TOTAL REVENUES	0.00	87,662.04	100.00
TOTAL EXPENDITURES	0.00	87,662.04	100.00
NET OF REVENUES & EXPENDITURES	0.00	0.00	0.00

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 301 - General Debt Serv(Voted Bonds)			
Revenues			
Transfers in	726,953.00	0.00	0.00
TOTAL Revenues	726,953.00	0.00	0.00
Expenditures			
Debt services - interest	260,000.00	0.00	0.00
Debt services - principal	466,953.00	0.00	0.00
TOTAL Expenditures	726,953.00	0.00	0.00
Fund 301 - General Debt Serv(Voted Bonds):			
TOTAL REVENUES	726,953.00	0.00	0.00
TOTAL EXPENDITURES	726,953.00	0.00	0.00
NET OF REVENUES & EXPENDITURES	0.00	0.00	0.00
Fund 402 - Public Improvement Fund			
Revenues			
General government	2,083,000.00	1,595,223.34	76.58
Unclassified	767,957.00	0.00	0.00
TOTAL Revenues	2,850,957.00	1,595,223.34	55.95
Expenditures			
General government	721,900.00	0.00	0.00
Transfers out	726,953.00	0.00	0.00
Debt services - interest	407,104.00	0.00	0.00
Debt services - principal	195,000.00	0.00	0.00
Public works	800,000.00	200,000.01	25.00
TOTAL Expenditures	2,850,957.00	200,000.01	7.02
Fund 402 - Public Improvement Fund:			
TOTAL REVENUES	2,850,957.00	1,595,223.34	55.95
TOTAL EXPENDITURES	2,850,957.00	200,000.01	7.02
NET OF REVENUES & EXPENDITURES	0.00	1,395,223.33	100.00

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 542 - Building Inspection Fund			
Revenues			
General government	400,968.00	0.00	0.00
Building inspections	1,681,000.00	1,394,384.50	82.95
Transfers in	313,561.00	78,390.24	25.00
TOTAL Revenues	2,395,529.00	1,472,774.74	61.48
Expenditures			
General government	1,127,233.00	281,772.75	25.00
Building inspections	1,268,295.98	199,584.46	15.74
TOTAL Expenditures	2,395,528.98	481,357.21	20.09
Fund 542 - Building Inspection Fund:			
TOTAL REVENUES	2,395,529.00	1,472,774.74	61.48
TOTAL EXPENDITURES	2,395,528.98	481,357.21	20.09
NET OF REVENUES & EXPENDITURES	0.02	991,417.53	
Fund 590 - Sewer Fund			
Revenues			
Transfers in	0.00	200,000.01	100.00
Unclassified	3,365,101.75	0.00	0.00
Utilities	28,126,894.00	5,350,096.52	19.02
TOTAL Revenues	31,491,995.75	5,550,096.53	17.62
Expenditures			
General government	5,654,386.00	1,408,436.86	24.91
Transfers out	1,860,000.00	465,000.00	25.00
Debt services - interest	695.21	0.00	0.00
Debt services - principal	6,016.23	1,665.36	27.68
Public works	1,990,000.00	0.00	0.00
Utilities	21,980,898.31	2,361,741.13	10.74
TOTAL Expenditures	31,491,995.75	4,236,843.35	13.45
Fund 590 - Sewer Fund:			
TOTAL REVENUES	31,491,995.75	5,550,096.53	17.62
TOTAL EXPENDITURES	31,491,995.75	4,236,843.35	13.45
NET OF REVENUES & EXPENDITURES	0.00	1,313,253.18	100.00

City of Flint
Revenue and Expenditure Report
For Year to Date ending September 30, 2014

GL NUMBER	2014-15 AMENDED BUDGET	YTD BALANCE 09/30/2014	% BDGT USED
Fund 591 - Water Fund			
Revenues			
General government	3,150,000.00	8,251.60	0.26
Utilities	37,886,000.00	6,217,326.13	16.41
TOTAL Revenues	41,036,000.00	6,225,577.73	15.17
Expenditures			
General government	5,762,876.00	1,435,671.33	24.91
Transfers out	3,768,071.00	282,500.01	7.50
Public works	3,190,000.00	0.00	0.00
Utilities	24,932,583.15	2,268,352.43	9.10
TOTAL Expenditures	37,653,530.15	3,986,523.77	10.59
Fund 591 - Water Fund:			
TOTAL REVENUES	41,036,000.00	6,225,577.73	15.17
TOTAL EXPENDITURES	37,653,530.15	3,986,523.77	10.59
NET OF REVENUES & EXPENDITURES	3,382,469.85	2,239,053.96	66.20
TOTAL REVENUES - ALL FUNDS	**180,036,408.69**	**42,465,584.32**	**23.59**
TOTAL EXPENDITURES - ALL FUNDS	**176,908,852.96**	**28,950,184.86**	**16.36**
NET OF REVENUES & EXPENDITURES	**3,127,555.73**	**13,515,399.46**	

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Monday, November 10, 2014 3:14 PM
To: Carter, Jerry (MSP); Kapp, Gene (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Darnell Earley; Deasy, Thomas (MSP); Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); Hill, Darryl (MSP); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Lee, Nichole (MSP); McGowan, Emmitt (MSP); Smith, Paul (GOV); Byrne, Randall (Treasury); Sands, Thomas (MSP); Sipes, Stephen (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); West, Samantha (GOV)
Subject: Treasury Conference Call Agenda
Attachments: Agenda 110714 Conf Call with Treasury.docx

Good afternoon,

In light of the meeting cancellation, please add to the attached agenda any items/updates from Michigan State Police, Governor's Office, or others and share with the group. These updates will be added to the on-going agenda.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

Attention Michigan State Police and Governor's Office: please add your agenda items and share with the group. These additions, once received, will become part of the on-going agenda.

City of Flint Wednesday 9:00am Phone Conference Agenda
November 12, 2014 CANCELLED

Not Responsive

Not Responsive

7) **Water Issues**
   a) General Motors Water Issues – working through lawyers at this point. We are close to a final agreement regarding their level as a customer with the City of Flint.
   b) A meeting with the Department of Environmental Quality was held on October 29. A number of steps for continued support were discussed. More follow-up is planned. We are awaiting action from the DEQ on getting a message of support out to the public.

Not Responsive

Not Responsive

Not Responsive

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, November 25, 2014 3:42 PM
To: Carter, Jerry (MSP); Kapp, Gene (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Darnell Earley; Deasy, Thomas (MSP); Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); Hill, Darryl (MSP); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Lee, Nichole (MSP); McGowan, Emmitt (MSP); Smith, Paul (GOV); Byrne, Randall (Treasury); Sands, Thomas (MSP); Sipes, Stephen (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); West, Samantha (GOV)
Subject: Bi-Weekly Conference Call Agenda
Attachments: Agenda & Attachments 112614 Conf Call with Treasury.pdf

Good afternoon,

Please find attached the agenda for the Wednesday, November 26th, 9:00 am conference call.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00am Phone Conference Agenda
November 26, 2014

Not Responsive

Not Responsive

7) **Water Issues**
   a) General Motors Water Issues – working through lawyers at this point. We are close to a final agreement regarding their level as a customer with the City of Flint.
   b) A meeting with the Department of Environmental Quality was held on October 29. A number of steps for continued support were discussed. More follow-up is planned. We are awaiting action from the DEQ on getting a message of support out to the public.

Not Responsive

Not Responsive

Attachment: Chicago Fed Letter
Demo Request Letter, Map and Chart

PPI

ESSAYS ON ISSUES | THE FEDERAL RESERVE BANK OF CHICAGO | DECEMBER 2014 NUMBER 329

Chicago Fed Letter

Understanding trends in state revenue sharing with local governments in Michigan

by Martin Lavelle, business economist

Over the past few years, discretionary cutbacks in state revenue sharing, as well as other related fiscal and economic factors, have led to budgetary challenges for local governments across the country, including those in Michigan. To study this issue in depth, the author looks at trends in revenue sharing between state and local governments in Michigan since the early 2000s.

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This *Chicago Fed Letter* examines the general role of state revenue sharing in local governments' budgets by focusing on the case of Michigan. Many observers have asserted that a major contributor to the financial difficulties of local governments in Michigan has been the significant drop in revenue sharing funds from the state government. To study this assertion, I examine the roots of the fiscal problems facing Michigan's local governments in recent years and the ways in which these governments have been dealing with diminished tax revenue bases.

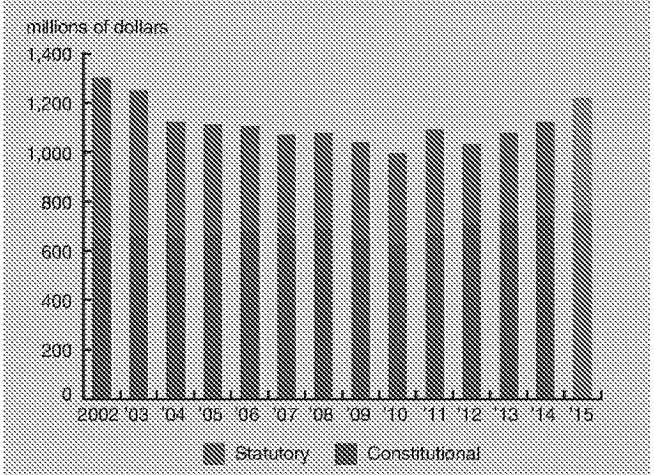
Michigan's local governments began to experience fiscal stress about a decade ago, when the state economy started to perform poorly. More recently, the financial conditions of many local governments in Michigan continued to deteriorate even as the state government saw surpluses following the Great Recession. Consequently, multiple units of local government—including the City of Detroit, the Detroit Public Schools, and the City of Flint—have been under the authority of state-appointed emergency managers (EMs), who have the task of returning these public entities to fiscal solvency. If an EM determines that fiscal solvency cannot be regained through cost-cutting, the selling of assets, and negotiations with creditors, that EM can ask for state approval to take the public entity into bankruptcy proceedings, which is what happened with the City of Detroit.[1]

Current trends

Revenue sharing programs can come under stress when economic activity slows, putting state budgets under pressure, which may in turn lead to decreases in revenue sharing with local governments.[2] To a large extent, declining revenue sharing in Michigan has been due to the state's weak economy. Michigan suffered a one-state recession, which began in late 2003 and lasted until mid-2009, when the nation's Great Recession also concluded. During the one-state recession, Michigan experienced decreases in its own-source revenues and population, which ultimately resulted in declining state revenue sharing with local governments. As seen in figure 1, since 2002, local governments in Michigan have generally received fewer revenue sharing funds from the state with each passing year.

The long decline in state funds available for revenue sharing with localities can best be understood by examining indicators of Michigan's economy. The 2010 U.S. Census revealed that Michigan was

1. Michigan's state revenue sharing with local governments



Note: The fiscal year 2015 value is a State of Michigan estimate.

Sources: Fiscal years 2002–05 data from the Michigan House of Representatives, House Fiscal Agency, available at www.house.mi.gov/hfa/PDF/GeneralGovernment/EVIP_Memo.pdf; and fiscal years 2006–15 data from the State of Michigan, available at www.michigan.gov/documents/ActualEstPayments_3018_7.pdf?20130801163626.

2. Michigan's state revenue sharing as share of state spending

Note: This figure displays state revenue sharing with local governments as a percentage of state spending from only state revenue resources for fiscal years 1980–2013.

Sources: Annual reports titled "Statement of the proportion of total state spending from state sources paid to units of local government (legal basis)" from the Library of Michigan.

the only state to lose population during the period 2000–10.[3] The population loss was brought on by a sharply declining job base and a jump in unemployment. Meanwhile, Michigan's residential real estate sector suffered a severe downturn. Michigan is not commonly identified with the mid-2000s housing price bubble. However, Michigan's drop in housing market activity during that time was comparable to what happened in those places that were hardest hit by the housing crisis. Today, new home construction in Michigan remains around 67% below its long-term trend—twice the gap that exists between overall U.S. new home construction and its long-term trend.[4] And with home prices having decreased sharply statewide over the 2006–12 period,[5] taxable home values are down significantly. Amid all these difficulties, retail sales on an annual basis were lower in 2009–10 than in 2002–08, which meant that the state had fewer sales tax collections—the primary basis of the state's revenue sharing program.[6]

As evident in figure 1, the state's revenue sharing with local governments in Michigan is composed of two parts: a portion that is determined by the formula set forth in the state constitution and a portion that is based on the formula set by the state statutory program in place at the time. Since 2002, revenue sharing funds as mandated in the state constitution have been fairly flat, while such funds from the statutory program have fallen sharply.

In Michigan, constitutionally mandated state revenue sharing with local governments began with the passage of an amendment to the state constitution in 1946;[7] under article IX, section 10 of the Michigan Constitution, the state government must share sales tax revenue with local governments.[8] In 1963, the amendment was modified to apportion 15% of the 4% statewide sales tax revenue to local governments on a per capita basis.[9] A locality's population count is determined by the U.S. Census Bureau and adjusted by subtracting 50% of the number of patients, wards, and convicts confined to public-tax-supported institutions within its borders.[10] Although certain individual units of local government might have gotten fewer funds from the state under this formulation in recent years, the overall levels of constitutionally mandated state revenue sharing have stayed fairly consistent over the past 13 years.

In contrast, there has been a clear trend in falling statutory revenue sharing. This pattern can be traced back to the early part of the last decade, when the State of Michigan started to face significant budgetary pressures. From then on, the state addressed its own fiscal problems partly through deep cuts to the existing statutory revenue sharing program. Over the period 1999–2010, statutory revenue sharing amounts were distributed according to a formula that was based generally on taxable home value per capita and population.[11] Hence, those communities most adversely affected by economic travails (i.e., those that were already experiencing dramatic home value declines and population flight) tended to have their fiscal stress magnified by the erosion of state revenue sharing funds under this distribution formula. Shortly after Governor Rick Snyder took office in 2011, the Economic Vitality Incentive Program (EVIP) became Michigan's statutory revenue sharing program. Local governments that received revenue sharing funds through the EVIP got significantly less than what they would have under the previous statutory revenue formula (e.g., in 2012 and 2013, local governments received a combined $173.5 million less than they would have).[12] For fiscal year 2015, the City, Village, and Township Revenue Sharing (CVTRS) program has replaced the EVIP.[13] Like the EVIP, the CVTRS program is likely to fall short of fully restoring statutory revenue sharing funds to levels before Michigan's one-state recession (see figure 1). Given these policy changes, it is easy to see why state revenue sharing in Michigan

3. Share of local government budgets from the state, 2010

A. Seventh District		B. Top five across United States	
Michigan	43.3	Vermont	66.2
Wisconsin	39.6	Arkansas	55.5
Indiana	36.7	New Mexico	48.9
Iowa	31.3	Delaware	47.1
Illinois	28.5	Michigan	43.3
		U.S.	33.1

Note: The U.S. value is the total dollar amount in state revenue sharing divided by the total dollar amount of local government budgets across all states.

Source: Author's calculations based on data from the U.S. Census Bureau, 2011 *Annual Survey of State & Local Government Finances*, available at http://www2.census.gov/govs/local/11slsstab1a.xls.

has fallen since the early 2000s. As shown in figure 2, state revenue sharing as a percentage of state spending from state resources fell to 56.3% in 2013 from its peak of 64.3% in 2002.

There is a wider context for understanding the impact of Michigan's declining state revenue sharing with localities since the early 2000s. In 1994, the state imposed a 2 percentage point increase in its sales tax (from 4% to 6%) to help fund a much-expanded local school aid system (as mandated by Proposal A, which I discuss in more detail later).[14] And so, for most of the 1990s and early 2000s, local governments in Michigan became more dependent on state revenue sharing than those in most other states—and this relatively high state dependence remains in place today. As seen in panel A of figure 3, among communities of states in the Seventh Federal Reserve District,[15] local governments in Michigan are the most reliant on state funding (with 43.3% of their budgets funded by the state); among all U.S. communities, Michigan localities rank fifth in this regard (see panel B of figure 3). In fiscal year 2012, state revenue sharing with local governments represented almost three-fifths (nearly $15 billion) of all state spending from state resources.[16] Figure 2 shows that the percentage of state resources dedicated to intergovernmental revenue sharing has fallen since the beginning of Michigan's one-state recession, but has remained above its constitutional mandate (of 48.97%).[17]

Local fiscal ability

Michigan's economic collapse during the past decade also directly impacted local governments' own-source revenue-raising abilities. More specifically, the deep drop in Michigan home values greatly stressed local budgets because local governments depend so highly on property taxes to fund their services. While local own-source revenues declined (along with revenue sharing funds from the state), local governments were hamstrung in raising new revenues themselves from their own communities. The 1978 Headlee Amendment to the Michigan Constitution explicitly forbids the use of some alternative revenue sources for local governments in Michigan that are employed in other states: Local governments are limited in their local income tax options; they may not institute taxes such as sales or motor fuel taxes; and their use of the local property tax is tightly constrained.[18] The vast majority of states place some limitations on the local property tax, but Michigan is among the very few with all four types of limitations (revenue, levy, rate, and assessment limits).[19] More specifically, local property and other local taxes may not be raised without local voter approval.[20] If Michigan's property tax revenue base is broadened, property tax rates must decrease. If property values (excluding those for new construction and improvements) increase at a rate greater than inflation, property tax rates must be adjusted in order to maintain the same gross revenue (changing strictly in line with inflation alone).[21] However, property tax rates are allowed to drop at a rate greater than the inflation rate.[22]

A related feature currently putting additional fiscal stress on local governments is the manner in which Michigan schools are funded. Michigan schools' operating expenditures are funded primarily through state tax revenues as a result of the passage of Proposal A in 1994.[23] While this program shifts the responsibility for funding education (equitably across school districts) to the state, it also exposes local education funding to any budget difficulties the state may experience. After Michigan's recession began in 2003, state revenue sharing to local school districts decreased. And despite Michigan's economic rebound since mid-2009, local school districts remain fiscally challenged, in part because of recent spikes in teacher retirement costs.[24]

Conclusion

While economic downturns clearly put pressure on state and local governments alike, in Michigan's case they have also added volatility and uncertainty into the revenue relationships between state and local governments. Because of changes to Michigan's statutory revenue sharing program and tax code, local government officials have become increasingly uncertain that statutory revenue sharing will reach pre-2003 levels. Local governments in Michigan may be forced to adjust what their services programs can deliver because of expected lower amounts of state aid over the medium term and possibly the long term. Meanwhile, Michigan localities' latitude to maintain their own programs with their own revenue sources is seemingly limited by law.

Charles L. Evans, *President*; Daniel G. Sullivan, *Executive Vice President and Director of Research*; Spencer Krane, *Senior Vice President and Economic Advisor*; David Marshall, *Senior Vice President, financial markets group*; Daniel Aaronson, *Vice President, microeconomic policy research*; Jonas D. M. Fisher, *Vice President, macroeconomic policy research*; Richard Heckinger, *Vice President, markets team*; Anna L. Paulson, *Vice President, finance team*; William A. Testa, *Vice President, regional programs, and Economics Editor*; Helen O'D. Koshy and Han Y. Choi, *Editors*; Rita Molloy and Julia Baker, *Production Editors*; Sheila A. Mangler, *Editorial Assistant*.

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[1] For more details on Detroit's bankruptcy filing, see www.chicagofed.org/webpages/publications/chicago_fed_letter/2013/november_316.cfm.

[2] Other research has found the tendency of state governments to cut local government aid during times of economic stress; see, e.g., http://publius.oxfordjournals.org/content/early/2013/11/17/publius.pjt039.full (available by subscription).

[3] See table 1 on p. 2 of www.census.gov/prod/cen2010/briefs/c2010br-01.pdf.

[4] Author's calculations based on data from the U.S. Census Bureau.

[5] Ibid.

[6] See exhibit 3 on p. 8 of www.michigan.gov/documents/treasury/SalesUseTaxReport2012_432538_7.pdf.

[7] See p. 9 of http://sites.udel.edu/ninadavid/files/2013/09/POLICY-STUDIO-CONSTITUTIONAL-REVENUE-SHARING-REPORT-FINAL-SEPT-2012.pdf.

[8] See www.legislature.mi.gov/(S(e04gak55sqo4h455o5bbamvb))/mileg.aspx?page=getObject&objectName=mcl-Article-IX-10.

[9] Ibid.

[10] See www.mi.gov/treasury/0,1607,7-121-1751_2197-5658--,00.html.

[11] For the fiscal year (FY) 1999 statutory revenue sharing formula, see www.michigan.gov/treasury/0,4679,7-121-1751_2197-5658--,00.html. Michigan's statutory revenue sharing formula was frozen in FY2001 because of the recession back then. Over the period FY2001–10, local governments' statutory revenue sharing payment was based on their 2000 receipt of statutory revenue sharing funds plus Michigan's state budget; see 24th slide of www.crcmich.org/PUBLICAT/2010s/2012/EMU_USRS_History_01-31-12.pdf.

[12] Author's calculations based on data from www.michigan.gov/documents/ActualEstPayments_3018_7.pdf?20130801162626.

[13] See www.plantemoran.com/perspectives/articles/2014/Pages/evip-update-and-tif-reimbursement-reporting-deadline.aspx and www.michigan.gov/documents/treasury/Detailed_Guidance_FY15_CVT_468245_7.pdf.

[14] See www.chicagofed.org/digital_assets/publications/chicago_fed_letter/2004/cfljune2004_203.pdf.

[15] The Seventh District comprises all of Iowa and most of Illinois, Indiana, Michigan, and Wisconsin.

[16] See www.crcmich.org/PUBLICAT/2010s/2012/sbn2012-03.html.

[17] See note 5 on last page of www.michigan.gov/documents/fy01_sec_30_report_34917_7.pdf.

[18] See http://crcmich.org/TaxOutline/index.html and www.michigantownships.org/revenue_sources.asp. While the Headlee Amendment has limited local revenue-raising powers, it does set state revenue and spending limits and prohibits the state from reducing its share of aid to local governments below a certain threshold or from shifting a tax burden to them; see www.mackinac.org/5574.

[19] Pew Charitable Trusts, 2012, "The local squeeze: Falling revenues and growing demand for services challenge cities, counties, and school districts," report, Washington, DC, June; and www.lincolninst.edu/subcenters/significant-features-property-tax/Report_State_Summaries.aspx.

[20] See http://legislature.mi.gov/doc.aspx?mcl-Article-IX-31.

[21] See p. 512 of http://ippsr.msu.edu/publications/SOSSGrowth.pdf. Also, the Headlee Amendment states that property taxes cannot increase annually by more than 5% or the inflation rate, whichever is less; see www.mml.org/resources/publications/one_pagers/opp_headlee_override.pdf.

[22] See www.clinton-county.org/Departments/Equalization/ProposalATaxableValueDecliningRealEstate.aspx.

[23] For further details on Proposal A, see www.michigan.gov/documents/propa_3172_7.pdf.

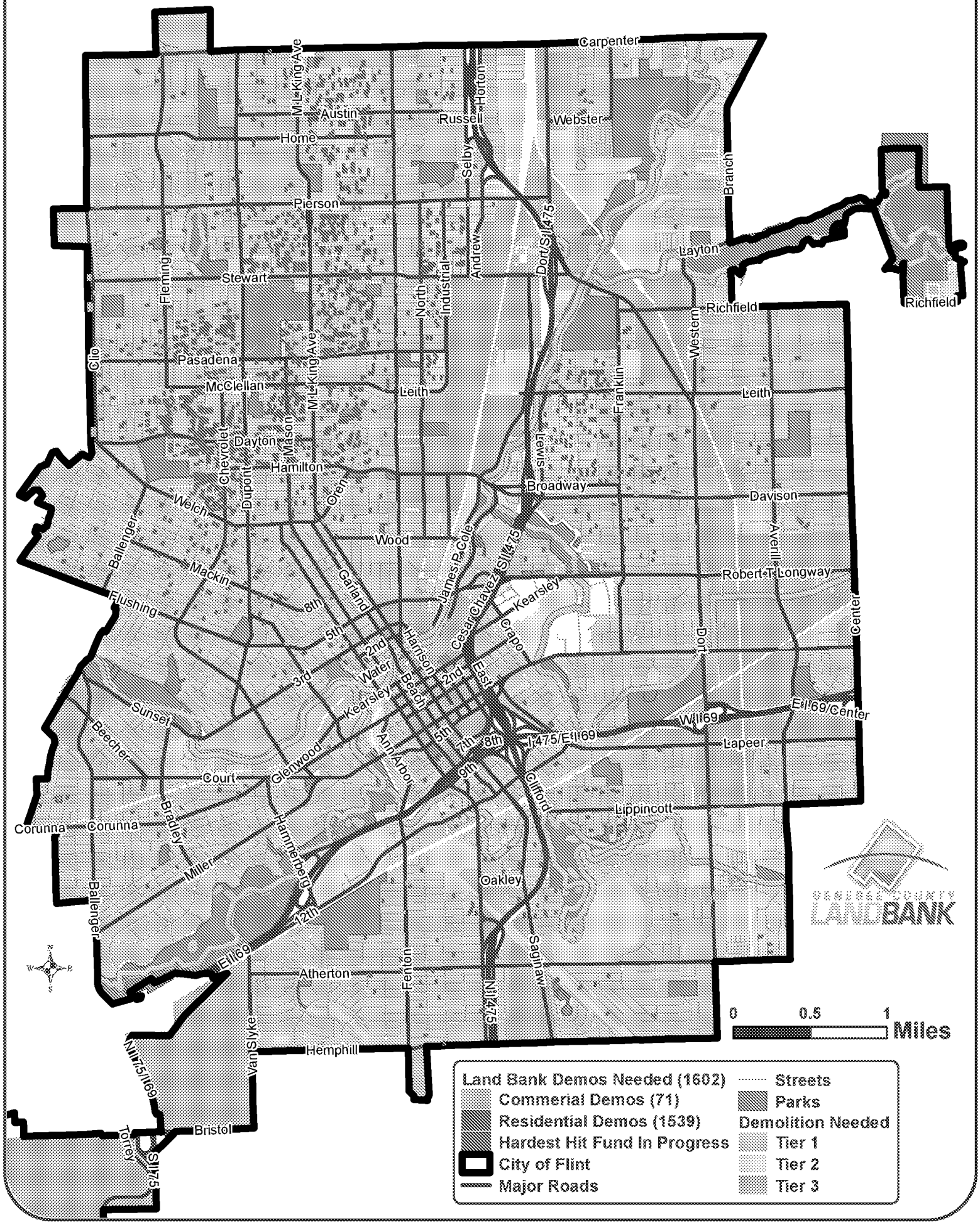
[24] See www.freep.com/article/20140203/NEWS06/302030053/Snyder-education-funding-increase-Michigan.

Demo Request of MSHDA: Flint Eligibility Status **Nov. 26, 2014**

Last October, the City of Flint adopted its first Master Plan since 1960. On the heels of the adoption, the City began development of a blight elimination framework, which prioritizes blight elimination activities based upon the new land use or "place types" in the Master Plan. This framework has gotten widespread community support with the goal of eliminating blight within the City in five years. Businesses, institutions, and residents are already pledging their support to help eliminate blight whether it is vacant lot maintenance or residential rehabilitation. Still the largest cost continues to be demolition and will require significant governmental resources.

Given the significant challenges Flint faces due to extreme population loss over several decades, we are **requesting that the City is considered for additional MSHDA resources for demolition**. Even after the Hardest Hit Fund and Michigan Blight Elimination Grant are expended completing a total of 2,037 demolitions, the City will have an additional 6,000 properties in need of demolition. Of these properties, 1610 properties will come to the Land Bank on January 1, 2015 (see map of properties attached). We are also working on code enforcement of privately held properties in need of demolition, which tend to impact our "tipping point" neighborhoods more dramatically. As we work through the code enforcement process, these properties are increasingly being transferred to the Land Bank. Thus, the 1610 properties in need of demolition will go up.

Current Demolition Needed by Place Type



Demolition Update for Flint, Michigan – November 2014

Flint's current administrative capacity and its data-driven blight elimination strategy leave it opportunistically poised for continuing to successfully removing blight through demolition.

The City of Flint and the Genesee County Land Bank (GCLBA) have led demolition in Flint over the last ten years through a strong partnership. Together, the two demolished more than 4,000 blighted structures in Flint through the year 2013. Over the last eighteen months this capacity for administering demolition has greatly increased. The GCLBA is successfully administering $26.41 million of funding for demolition in Flint, which will remove more than 2,000 blighted structures in record time.

In 2014 the City of Flint released *Beyond Blight: City of Flint Comprehensive Blight Elimination Framework.* This data-driven Framework quantifies the scale of blight in Flint today, identifies roles and responsibilities for a collaborative approach, and provides priorities and strategies for eliminating blight in Flint in alignment with the City's new Master Plan. The Framework includes a five-year demolition strategy. The Framework and its demolition strategy have been touted as models for approaching and prioritizing blight elimination broadly, and demolition specifically.

Figure 1: Place-Based Demolition in Flint, Michigan

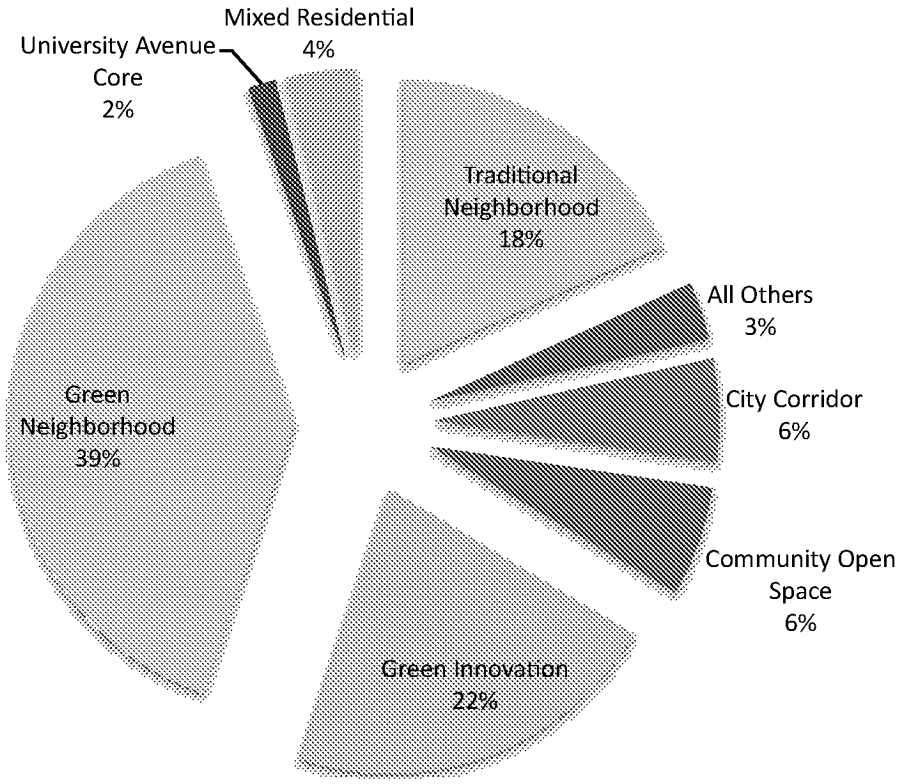
Place Type	Structures in Need of Demolition			Cost of Needed Demolition		
	Residential	Commercial	Total	Residential	Commercial	Total
TIER 1						
Neighborhood Center	16	14	30	$160,000	$700,000	$860,000
Traditional Neighborhood	690	124	814	$6,900,000	$6,200,000	$13,100,000
Green Neighborhood	2049	156	2205	$20,490,000	$7,800,000	$28,290,000
Mixed Residential	201	16	217	$2,010,000	$800,000	$2,810,000
University Avenue Core	67	9	76	$670,000	$450,000	$1,120,000
City Corridor	228	38	266	$2,280,000	$1,900,000	$4,180,000
TIER 2						
Green Innovation	1381	35	1416	$13,810,000	$1,750,000	$15,560,000
Community O&S	357	18	375	$3,570,000	$900,000	$4,470,000
TIER 3						
Downtown	6	9	15	$60,000	$450,000	$510,000
Commerce & E	33	13	46	$330,000	$650,000	$980,000
Production	0	0	0	$0	$0	$0
TOTAL	**5028**	**432**	**5460**	**$50,280,000**	**$21,600,000**	**$71,880,000**

<u>Demolition in Hardest Hit Fund Areas</u>

- Demolition in the Hardest Hit Fund areas aligns with the top priorities of Flint's Blight Elimination Framework. These areas comprise a subset of the Tier 1 areas in the table above. More specifically, Hardest Hit Fund areas include Neighborhood Centers, the vast majority of Traditional Neighborhoods, Green Neighborhoods with greater occupancy, the majority of Mixed Residential areas, the University Avenue Core, and the majority of City Corridors.
- Given the recent large investment in the Hardest Hit Fund areas, remaining blighted structures in these areas are the first priority for demolition.
    - $30,720,000 needed to remove all blighted structures in Hardest Hit Fund areas.
    - $8,860,000 needed to demolish 662 (606 residential and 56 commercial) remaining blighted Land Bank structures in the Hardest Hit Fund areas, including structures the Land Bank will receive on January 1, 2015.
    - $21,850,000 needed to demolish 1,653 (1,520 residential and 133 commercial) remaining blighted structures, privately owned, in the Hardest Hit Fund areas.

DEMOLITION

Five-Year Demolition Needed by Place Type



4,000
residential structures demolished in the last 10 years

1,600
residential structures already funded and scheduled for demolition by spring 2015

17
commercial structures already funded and scheduled for demolition by spring 2015

$10,000 on average to demolish a residential structure

5,028
residential structures in need of demolition in the next five years

1 out of every 8 residential structures in Flint is in need of demolition in the next five years

$71.88 million
to demolish all blighted structures over the next five years

$69.38
gap in funding for demolition

$50,000 on average to demolish a residential structure

432
commercial structures in need of demolition in the next five years

1 out of every 6 commercial structures in Flint is in need of demolition in the next five years

DEMOLITION

Demolition of blighted and dangerous properties within Flint neighborhoods was identified as a top priority during Master Plan community engagement input sessions. In 2013 the Genesee County Land Bank Authority received two grants totaling roughly $23.8 million to demolish blighted residential and commercial structures, the vast majority of which are located in Flint. Accordingly, roughly 1,600 blighted structures will be demolished between the fall of 2013 and the spring of 2015, according to the guidelines and requirements of the two funding sources. Because the demolition of these properties is funded and under way they are not included in the calculation of needed demolition and are considered demolished moving forward in this framework. There are still approximately 5,028 houses and 432 commercial buildings that will need to be demolished over the next five years at a cost of roughly $71.88 million. Additional expected funding for demolition over the next five years totals only $2.5 million ($500,000 of City of Flint CDBG funding annually), leaving a $69.38 million gap for demolition. Thus, pursuing funding for demolition is a top priority for the next five years. Demolition accounts for 66% of the total cost of removing blight over the next five years. Furthermore, although government agencies will typically take the lead on demolition, partnerships between government and institutions should be created and solidified for a complementary demolition approach.

Collaboration Between Partners

Partner Roles

Residents
Residents should support demolition by reporting both properties in need of demolition and improperly completed demolition projects to local government.

Local Government
Because the vast majority of demolition in Flint is needed for blight removal and not redevelopment, government will lead demolition throughout the city.

Institutions
Institutions such as non-profit organizations, churches, and places of learning and higher education and should support demolition by purchasing and demolishing nearby blighted properties in coordination with government agencies.

Community Groups
Residents should support demolition by reporting both properties in need of demolition and improperly completed demolition projects to local government. Community groups should also share information about demolition efforts with other community members.

Businesses and Developers
Like institutions, businesses and developers can support demolition by purchasing and demolishing nearby blighted properties. While businesses and developers will lead demolition for redevelopment purposes, government will likely support demolition for redevelopment given property values and market conditions in Flint.

DEMOLITION

This chart directs citywide demolition for neighborhood stabilization in Flint by outlining priorities according to place type and depicting the connections between place types, methods, and partners. Place types are organized into three prioritized tiers and are listed in descending order on the left side. Yellow boxes provide descriptions of demolition methods for each tier and its place types. Blue boxes identify responsible partners for each tier and its place types.

Priority Chart for Neighborhood Stabilization

Tier 1: Neighborhood Demolition

Neighborhood Center
Traditional Neighborhood
Green Neighborhood
Mixed Residential
University Avenue Corridor
City Corridor

Demolition of blighted residential and commercial structures in and around Flint neighborhoods. Demolition eligibility depends on property condition, value, and place type location. Generally, properties in poor or structurally deficient condition are considered for demolition.

Local Government with Institutional support

Tier 2: Demolition for Green Reuse

Community Open Space
Green Innovation

Demolition of vacant residential and commercial structures for green re-use.

Local Government

Tier 3: Demolition for Redevelopment

Downtown District
Commerce & Employment Center
Production Center

Demolition of residential and commercial structures for redevelopment and re-use according to place type.

Businesses and Developers with Institutional and Local Government support

DEMOLITION

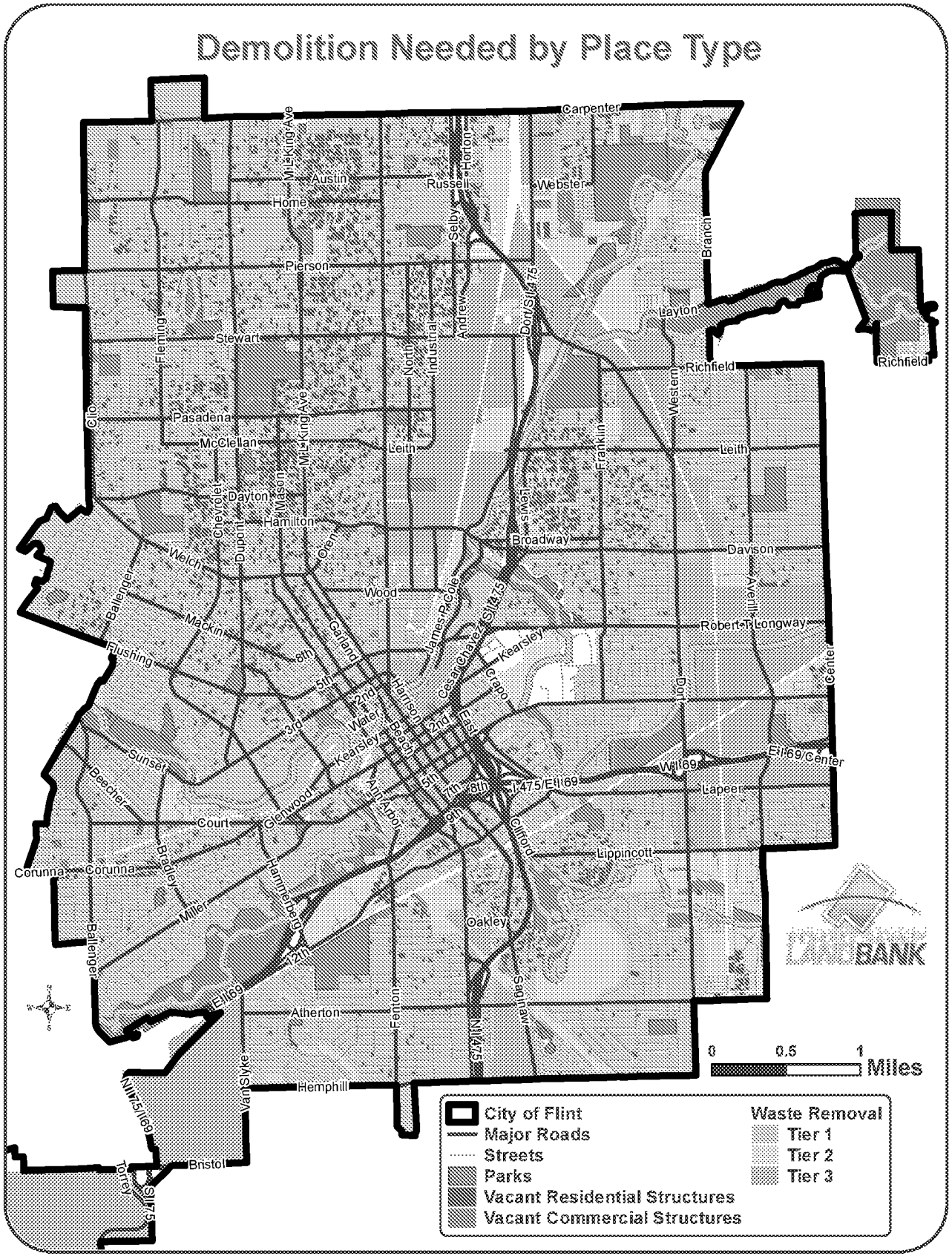
Action Steps and Potential Strategies

- Actively pursue funding for demolition to fill the gap between funding needed to demolish blighted structures over the next five years and funding currently available.
- Develop demolition plans in line with the priority chart and place type descriptions provided in this framework.
- Prioritize demolition within place types according to block-level occupancy. Prioritize demolishing blighted structures on blocks with higher occupancy. See vacancy by block maps for Traditional Neighborhoods on page 62 and Green Neighborhoods on page 66.
- Review and revise demolition infill specifications to reduce future maintenance and infrastructure costs.
- Refrain from boarding vacant properties planned and funded for demolition. Board vacant properties identified for demolition but not funded.
- Ensure collaboration between local government and University Avenue Core institutions. The demolition recently completed by the institutions in the University Ave Core is a leading example of a cross-sector demolition partnership. 93 properties are in need of demolition in this place type: 91 residential and 2 commercial structures costing approximately $1,010,000 total. Plans should be developed with University Avenue Core institutions to complete this demolition over the next five years.
- Direct any deconstruction projects to Green Innovation sites to precede Green Innovation pilot projects.
- Incorporate demolition into an online Problem Property portal (see page X for more details). Consider creating an online demolition-tracking tool.
- Consider establishing a matching fund for demolition whereby private parties (residents, businesses, community organizations, institutions, etc.) can contribute money towards demolition in a particular place type that will be matched by one or more local foundations. Consider a specific request to homeowners in Traditional Neighborhoods. If each homeowner in Traditional Neighborhoods contributed $300 to a matching fund, all residential structures in need of demolition could be demolished in Traditional Neighborhoods.

Five-Year Bench Marks for Blight Elimination

Years 1 and 2	Years 3 and 4	Year 5
• 1,400 blighted residential structures demolished, 25% of the total needed • 98 blighted commercial structures demolished, 25% of the total needed	• 2,800 additional blighted residential structures demolished, completing 75% of the total needed • 196 additional blighted commercial structures demolished, completing 75% of the total needed	• 1,445 additional blighted residential structures demolished, completing 100% of the total needed • 96 additional blighted commercial structures demolished, completing 100% of the total needed

DEMOLITION


Demolition Needed by Place Type
Carpenter
Mt. King Ave
Austin
Home
Pierson
Stewart
Fleming
Pasadena
McClellan
Clio
Dayton
Chevrolet
Mason
Hamilton
Dupont
Welch
Ballenger
Flushing
Mackin
Sunset
Beecher
Court
Corunna
Bradley
Miller
Hemphill
Van Slyke
Bristol
Torrey
Russell
Horton
Webster
Selby
Andrew
Industrial
Northern
Leith
Franklin
Western
Branch
Layton
Richfield
Broadway
Davison
Wood
Robert T. Longway
Center
Kearsley
Cedar
Harrison
Water
Glenwood
Hamilton
Garland
James P. Cole
Cesar Chavez
Dort
Clifford
Lippincott
Oakley
Fenton
Atherton
Genesee
Lapeer
Miller
Bristol
I-475/Ell69
Ell69/Center
Wil69
Ell69
I-475
I-475/Ell69
0
0.5
1
Miles
City of Flint
Major Roads
Streets
Parks
Vacant Residential Structures
Vacant Commercial Structures
Waste Removal
Tier 1
Tier 2
Tier 3
LAND BANK

Subject:	DM/EC/HH/Wayne Workman/ Tom Saxton/ Ashley Gelisse RE: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water
Location:	Governor's Conference Room, 2nd Floor Romney
Start:	Tue 4/14/2015 11:00 AM
End:	Tue 4/14/2015 12:00 PM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	Muchmore, Dennis (GOV)
Required Attendees:	Workman, Wayne (TREASURY); Saxton, Thomas (Treasury); Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Gelisse, Ashley (TREASURY); Cousineau, Sara (Treasury); Pleyte, Beth (Treasury); Clayton, Stacie (GOV); Dempkowski, Angela (Treasury)

Attendees:
EC/DM/HH
Wayne Workman
Tom Saxton
Ashley Gelisse

From: Gelisse, Ashley (TREASURY)
Sent: Thursday, April 09, 2015 2:58 PM
To: Workman, Wayne (TREASURY); Muchmore, Dennis (GOV)
Cc: Saxton, Thomas (Treasury); Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Cousineau, Sara (Treasury); Pleyte, Beth (Treasury); Wisniewski, Wendy (GOV); Stoken, Laura (GOV)
Subject: RE: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water

Wayne and I discussed this further. I think it would be good if this group could meet early next week to have another discussion on Flint.

The purpose of the meeting would be to discuss and finalize Flint RTAB members, and also to discuss the potential ramifications of Rep. Kildee's recommendation that the state forgive Flint's $22M water loan: http://www.mlive.com/news/flint/index.ssf/2015/04/kildee_asks_feds_about_forgive.html

If you agree, perhaps Wendy (or Laura, in her absence) and Beth can help us find some time. Thanks much.

Ashley

From: Workman, Wayne (TREASURY)
Sent: Wednesday, April 08, 2015 6:40 PM
To: Muchmore, Dennis (GOV)
Cc: Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Gelisse, Ashley (TREASURY); Clement, Elizabeth (GOV);

Hollins, Harvey (GOV)
Subject: Re: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water

It is timely to figure that out, because what they is not affordable and they are ignoring the new improvements announced today.

Sent from my iPad

On Apr 8, 2015, at 5:27 PM, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov> wrote:

Why not, we haven't anything else to do except spend our time chasing our tail. This issue isn't going to go away until we do some serious comms work in the city.

From: Workman, Wayne (TREASURY)
Sent: Wednesday, April 08, 2015 5:13 PM
To: Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Gelisse, Ashley (TREASURY); Muchmore, Dennis (GOV); Clement, Elizabeth (GOV)
Subject: Fwd: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water

FYI

Sent from my iPhone

Begin forwarded message:

From: "Koryzno, Edward (Treasury)" <KoryznoE@michigan.gov>
Date: April 8, 2015 at 4:35:47 PM EDT
To: "Workman, Wayne (TREASURY)" <WorkmanW@michigan.gov>, "Gelisse, Ashley (TREASURY)" <GelisseA@michigan.gov>
Subject: FW: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water

FYI

Edward B. Koryzno, Jr. | Director – Bureau of Local Government Services
State of Michigan | 430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
(517) 373-4415 | (517) 373-0633 (fax)
KoryznoE@michigan.gov

Think Green! Don't print this e-mail unless you need to.

CONFIDENTIALITY NOTICE: This e-mail, and any attachments, is for the sole use of the intended recipient(s) and may contain information that is confidential and protected from disclosure under the law. Any unauthorized review, use, disclosure, or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail, and delete/destroy all copies of the original message and attachments.
Thank you

From: Widigan, Robert (TREASURY)
Sent: Wednesday, April 08, 2015 4:12 PM
To: Koryzno, Edward (Treasury); Byrne, Randall (Treasury); Cline, Richard (Treasury); Vandegrift, Drew (TREASURY)
Subject: Flint Pastors Warn They'll Go To Court To Get City Off Flint River Water
Importance: Low

FYI – http://videos.mlive.com/mlive/2015/04/flint_pastors_warn_theyll_go_t.html

Robert Widigan | Office of Fiscal Responsibility
State of Michigan | Department of Treasury
430 W. Allegan Street | Lansing, MI 48922
Office (517) 335-2130 | Cell PPI
WidiganR@michigan.gov

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, January 06, 2015 3:24 PM
To: Carter, Jerry (MSP); Kapp, Gene (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Darnell Earley; Deasy, Thomas (MSP); Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); Hill, Darryl (MSP); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Lee, Nichole (MSP); McGowan, Emmitt (MSP); Smith, Paul (GOV); Byrne, Randall (Treasury); Sands, Thomas (MSP); Sipes, Stephen (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); West, Samantha (GOV)
Subject: Bi-Weekly Conference Call Agenda
Attachments: Conf Call Agenda 010715.pdf

Good afternoon,

Please find attached the agenda for the 9:00 am conference call scheduled for **Wednesday, January 7, 2015.**

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00am Phone Conference Agenda

January 7, 2015

PPI

Last Report

Status

Not Responsive

Not Responsive

5) Water Issues

a) MDEQ Violation Notice	Violation notice received 12/16/14 maximum contaminant level for TTHM exceeded. Public notice required. Notices sent out Jan 5, 2015. Most recent readings in compliance.	NEW

Not Responsive

Not Responsive

Steps to Prepare for Transition From Emergency Manager to Receivership Transition Advisory Board

Not Responsive

Steps to Prepare for Transition From Emergency Manager to Receivership Transition Advisory Board

Not Responsive

Not Responsive

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, February 03, 2015 1:48 PM
To: Kapp, Gene (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Carter, Jerry (MSP); Deasy, Thomas (MSP); Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); Hill, Darryl (MSP); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Lee, Nichole (MSP); McGowan, Emmitt (MSP); Smith, Paul (GOV); Byrne, Randall (Treasury); Sands, Thomas (MSP); Sipes, Stephen (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); West, Samantha (GOV)
Subject: Bi-Weekly Conference Call Agenda
Attachments: Agenda for Conference Call with Treasury 020415 (1).pdf

Good afternoon,

Please find attached the agenda for the conference call scheduled for **Wednesday, February 4th at 9:00 am.**

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Gerald Ambrose, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00am Phone Conference Agenda

February 4, 2015

PPI

	Last Report	Status
1) Public Safety Update – FPD, MSP, (FFD, if needed)	Not Responsive	
2) Governor's Office Update – R. Baird, H. Hollins, B. Clement		

	Last Report	Status
3) Finance and Administrative Update		
4) City Council Update	**Not Responsive**	

		Last Report	Status
5) Water Issues			
	a) MDEQ Violation Notice	Two separate, independent testing results by news media find Flint water within EPA/MDNR guidelines, as does most recent internal testing.	Update
	b) Distressed Cities Grants	Announcements of awards due Feb. 3 for Flint's two grant requests: Leak Detection and Sewage sludge Load Out Facility.	Update
	c) Drinking Water Revolving Fund	Discussing possible restructuring of loans.	New
	d) Consultant	RFP process resulted in a proposal from Veolia. Agreement being finalized for initial evaluation phase, to begin next week and to take a week or so to complete.	New
6) 9-1-1 Reconsolidation Plan			
7) Transition Activities			

Not Responsive

	Last Report	Status
8) Other Items		

Not Responsive

on

From: Workman, Wayne (TREASURY)
Sent: Friday, February 27, 2015 6:04 PM
To: Muchmore, Dennis (GOV)
Cc: Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Storberg, Ann Marie (TREASURY)
Subject: Re: PRESS RELEASE: Recent Tests Show Flint Water within EPA Guidelines

Dont know but i would drink it

Sent from my iPhone

On Feb 27, 2015, at 6:02 PM, Muchmore, Dennis (GOV) <muchmored@michigan.gov> wrote:

> Does it still smell?
>
> ---
>
> **From:** Workman, Wayne (TREASURY)
> **Sent:** Friday, February 27, 2015 5:15 PM
> **To:** Muchmore, Dennis (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Saxton, Thomas (Treasury); Stanton, Terry A. (Treasury); Storberg, Ann Marie (TREASURY)
> **Subject:** Fwd: PRESS RELEASE: Recent Tests Show Flint Water within EPA Guidelines
>
> In case you did not see this. Will be reviewing Water System info over the weekend. Maybe something Monday, Tuesday latest. I need to edit also. Wayne
>
> Sent from my iPhone
>
> Begin forwarded message:
>
> > **From:** Jason Lorenz <jlorenz@cityofflint.com>
> > **Date:** February 27, 2015 at 4:29:04 PM EST
> > **To:** Jason Lorenz <jlorenz@cityofflint.com>
> > **Subject: Re: PRESS RELEASE: Recent Tests Show Flint Water within EPA Guidelines**
> >
> > Attached is the release with the proper date.
> >
> > **For Immediate Release**
> >
> > ## Recent Tests Show Flint Water within EPA Guidelines
> >
> > ***Flint, Michigan – February 27, 2015*** – The Michigan Department of Environmental Quality (MDEQ) Testing lab has provided results to the City of Flint showing that

test results for TTHM levels for the month of February are well within EPA guidelines for safe water. All eight testing sites showed levels of TTHM ranging between 14.9 and 28.5 micrograms per liter (µg/L), well below the Maximum Contamination Level of 80 (see chart below).

The testing results confirm the progress made by the City to address concerns regarding the safety of its water supply and corroborates findings by the City and independent tests by other organizations that the water today is safe. "Flint's water supply is meeting all safety guidelines set forth by the EPA," said DPW Director Howard Croft. "Today's findings by the MDEQ reinforce the progress we have made, and should help rebuild confidence in the safety of Flint's drinking water. We still have work to do to improve water quality and are committed to being vigilant to assure that water safety is maintained."

These results also show that the four month average for test results is now within EPA guidelines for five of the eight testing areas in the City. However, because EPA regulations require that the four month average for all testing sites be within guidelines, the City of Flint will still be considered to be out of compliance by MDEQ. The City expects to receive notice within the next few weeks indicating non-compliance, and system users can expect to receive official notice of non-compliance in the month of March.

Meanwhile, the City continues to work on maintaining water safety and improving water quality. While steps are being taken daily to improve quality, the City is expecting a formal set of recommendations from its water quality experts within the next few weeks.

The detail of the study results, a report of the progress being made and preliminary recommendations from Veolia will be shared with the newly formed Water Advisory Committee and Water Technical Committee, whose first meetings are scheduled for next week.

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

On Fri, Feb 27, 2015 at 4:04 PM, Jason Lorenz <jlorenz@cityofflint.com> wrote:

Recent Tests Show Flint Water within EPA Guidelines

Flint, Michigan – March 2, 2015 – The Michigan Department of Environmental Quality (MDEQ) Testing lab has provided results to the City of Flint showing that test results for TTHM levels for the month of February are well within EPA guidelines for safe water. All eight testing sites showed levels of TTHM ranging between 14.9 and 28.5 micrograms per liter (µg/L), well below the Maximum Contamination Level of 80 (see chart attached).

The testing results confirm the progress made by the City to address concerns regarding the safety of its water supply and corroborates findings by the City and independent tests by other organizations that the water today is safe. "Flint's water supply is meeting all safety guidelines set forth by the EPA," said DPW Director Howard Croft. "Today's findings by the MDEQ reinforce the progress we have made, and should help rebuild confidence in the safety of Flint's drinking water. We still have work to do to improve water quality and are committed to being vigilant to assure that water safety is maintained."

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Meanwhile, the City continues to work on maintaining water safety and improving water quality. While steps are being taken daily to improve quality, the City is expecting a formal set of recommendations from its water quality experts within the next few weeks.

The detail of the study results, a report of the progress being made and preliminary recommendations from Veolia will be shared with the newly formed Water Advisory Committee and Water Technical Committee, whose first meetings are scheduled for next week.

See Attached. Areas in blue (under February) indicate current levels.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, March 03, 2015 2:00 PM
To: Kapp, Gene (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Carter, Jerry (MSP); Deasy, Thomas (MSP); Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); Hill, Darryl (MSP); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Lee, Nichole (MSP); McGowan, Emmitt (MSP); Smith, Paul (GOV); Byrne, Randall (Treasury); Sands, Thomas (MSP); Sipes, Stephen (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); West, Samantha (GOV)
Subject: Bi-Weekly Conference Call Agenda
Attachments: Agenda for Conference Call with Treasury 030415 (1).pdf

Good afternoon,

Please find attached the agenda for the conference call scheduled for **Wednesday, March 4th at 9:00 am.**

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Gerald Ambrose, Emergency Manager
Natasha Henderson, City Administrator
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00am Phone Conference Agenda

March 4, 2015

Not Responsive

	Last Report	Status
1) Public Safety Update – FPD, MSP, (FFD, if needed)	Not Responsive	
2) Governor's Office Update – R. Baird, H. Hollins, B. Clement		
3) Finance and Administrative Update		

	Last Report	Status
4) City Council Update	Not Responsive	
5) Water Issues		
a) MDEQ Violation Notice	Most recent TTHM sampling was tested by the MDEQ - confirmed our most recent internal tests findings that water is within federal/state guidelines. Expect to receive a violation notice from MDEQ, due to the running average calculation, in 7-10 days. The notice to customers will go out by mid-March.	Update
b) Drinking Water Revolving Fund	Discussing possible restructuring of loans.	Discussion ongoing
c) Water Quality Consultant	Final report being compiled; will focus on assuring continued TTHM compliance and plans for hardness and discoloration improvement.	Update
d) WAC/TAC	A 40 member Water Advisory Committee and a 13 member Technical Advisory Committee (including an EPA representative)have been formed as part of the process of improving communication and receiving additional feedback. Meeting this week.	Update
e) Problem resolution	Letter from EM to Treasury notes that the basic problem with water in Flint is cost, not water quality, but that no quick resolution is evident	New

	Last Report	Status
6) 9-1-1 Reconsolidation Plan	Not Responsive	
7) Transition Activities		
8) Other Items		

From: Clayton, Stacie (GOV)
Sent: Friday, March 06, 2015 2:12 PM
To: Baird, Richard (GOV); Muchmore, Dennis (GOV); Clement, Elizabeth (GOV)
Cc: Hollins, Harvey (GOV)
Subject: FW: Flint Water Meeting
Attachments: SomnioGlobal_Ozone disinfection technology.pdf

Just an FYI – the meeting Rich asked Harvey to arrange will be on Monday at 1pm in Lansing. Please see below. -- Stacie

---

From: Clayton, Stacie (GOV)
Sent: Friday, March 06, 2015 2:05 PM
To: Hollins, Harvey (GOV); 'Gerald Ambrose'; 'Maxine Murray'; Thelen, Mary Beth (DEQ); Wurfel, Brad (DEQ); Devereaux, Tracy Jo (DEQ); Busch, Stephen (DEQ); 'Natasha Henderson'; Shekter Smith, Liane (DEQ)
Subject: Flint Water Meeting

Greetings All,

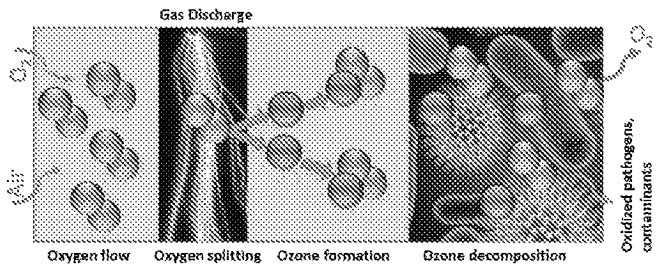
Attached is a brief overview of the information to be presented on Monday at the 1:00pm meeting with Steve Linder of the Sterling Corporation regarding Flint Water. The meeting will be held at the Sterling Corporation's offices on 106 W. Allegan, Ste. 2 in Lansing. I have sent the appointment and here are the list of attendees:

Harvey Hollins, Director, Governor's Office of Urban and Metropolitan Initiatives
Gerald Ambrose, Flint Emergency Manager
Natasha Henderson, Flint, City Manager
Liane Shekter Smith, Chief, Office of Drinking Water and Municipal Assistance (DEQ)
Stephen Busch, Office of Drinking Water and Municipal Assistance (DEQ)
Brad Wurfel, Director of Communications (DEQ)

Chemical Free Water Disinfection by Ozone

Today about 98% of water treatment facilities in the U.S. use some form of chlorine to disinfect drinking water supplies. It is a cost effective method for destroying potentially harmful bacteria and viruses. However, chlorine's ability to interact with organic compounds in water leads to trihalomethanes (THMs) formation. Especially, river or lake water with high level of organic matter require heavy chlorination to combat high level of bacteria, resulting in dangerous levels of THMs and bad smell. THMs, when ingested can encourage the growth of free radicals that can destroy or damage vital cells in the body. Besides cancer, exposure to THMs has been linked to other health issues including asthma, eczema, heart disease and higher miscarriage and birth defect rates. Further, high level of chlorine also poses serious risk to the aging infrastructure.

Chemical free water disinfection technologies such as UV light and ozone have long been recognized to be much safer than chlorination, however, their high cost has prevented wider adoption. The basic mechanism of ozone generation and disinfection is shown in the picture. Ozone has a high oxidation potential (much higher than chlorine) and a superior response time compared to other sanitizing products. Its high oxidizing potential enables ozone to break down organic matters that chlorine cannot. Some pollutants can only be oxidized by ozone. For example, ***Cryptosporidium Parvum***, a drinking water pollutant, is resistant to most disinfectants, but is effectively destroyed by ozone. Most importantly, the emission from ozone is pure oxygen and it leaves no residues.



UV light is a competing non-chemical sterilization technique. Intense UV rays break down the sensitive RNA and/or DNA of microorganisms, thus preventing the organism from reproducing. Ozone, on the other hand, oxidizes the microorganisms, thus destroying their cells completely. UV sterilization being a line of sight process, to be effective, one needs to remove most of the suspended matter prior to the treatment. In contrast, ozone oxidizes the soil or particulate matter, changing or destroying the chemistry of the soiling materials such as organic compounds.

Despite the great benefits of ozone, its widespread adoption is limited due to the high total ownership cost of current commercial ozone generators. Somnio's $AiR_2O_3^{TM}$ ozone generator is a paradigm shift in ozone generation technology. The first and only commercial barrier less ozone generator eliminates the requirement of dielectric barriers and highly filtered dried oxygen (pure or enriched) supplies, which restrain current commercial ozone generators. This groundbreaking technology brings a market-competitive, robust, energy efficient, and scalable modular device that offers a financially attractive alternative with the capability of producing varying levels of ozone depending on the application at hand.

Producing ozone cost effectively is only part of the greater story of the far reaching benefits of ozone. Applying ozone effectively for a given application requires careful and intelligent design, sensing and monitoring. In addition to its revolutionary $AiR_2O_3^{TM}$ ozone generator, Somnio

collaborates with end users to provide complete and economical turnkey solutions. Somnio's current in-house test plant incorporates all necessary safety features and automation.

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, March 17, 2015 2:51 PM
To: Kapp, Gene (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Carter, Jerry (MSP); Deasy, Thomas (MSP); Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); Hill, Darryl (MSP); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Lee, Nichole (MSP); McGowan, Emmitt (MSP); Natasha Henderson; Smith, Paul (GOV); Byrne, Randall (Treasury); Sands, Thomas (MSP); Sipes, Stephen (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); West, Samantha (GOV)
Subject: Bi-Weekly Conference Call Agenda
Attachments: Agenda for Conference Call with Treasury 031815.pdf

Good afternoon,

Please find attached the agenda for the 9:00 am conference call scheduled for **Wednesday, March 18, 2015.**

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Gerald Ambrose, Emergency Manager
Natasha L. Henderson, City Administrator
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00am Phone Conference Agenda

March 18, 2015

Not Responsive

	Last Report	Status
1) Public Safety Update – FPD, MSP, (FFD, if needed)		
2) Governor's Office Update – R. Baird, H. Hollins, B. Clement		
3) Finance and Administrative Update		

Not Responsive

	Last Report	Status
4) City Council Update	Not Responsive	
5) Water Issues		
a) MDEQ Violation Notice	Most recent TTHM sampling was tested by the MDEQ - confirmed our most recent internal test findings - that water is within federal/state guidelines. Received the violation notice from MDEQ, due to the running average calculation. The notice to customers will go out by mid-March, with more information included and medical community participation.	Update
b) Drinking Water Revolving Fund	Discussing possible restructuring of loans.	No Change
c) Water Quality Consultant	Final report being compiled; will focus on TTHM compliance and plans for hardness and discoloration improvement.	Update
d) WAC/TAC	A 40 member Water Advisory Committee and a 13 member Technical Advisory Committee (including EPA representative) have met as part of the process of improving communication and receiving additional feedback. WAC 2nd meeting scheduled for 3/19/15.	Update
e) Problem resolution next steps	Administration to develop action plan based on Veolia study and input from WAC/TAC.	Update
6) 9-1-1 Reconsolidation Plan	Not Responsive	

	Last Report	Status
7) Transition Activities	Not Responsive	
8) Other Items		

From: Workman, Wayne (TREASURY)
Sent: Thursday, March 19, 2015 12:21 PM
To: Muchmore, Dennis (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV)
Subject: FW: PRESS RELEASE: EM Authorizes DWRF Bond Restructuring
Attachments: DWRF Bond Restructuring.pdf

FYI, Wanted to make sure you saw this.

From: Jason Lorenz [mailto:jlorenz@cityofflint.com]
Sent: Thursday, March 19, 2015 12:16 PM
Subject: PRESS RELEASE: EM Authorizes DWRF Bond Restructuring

Flint Emergency Manager Authorizes Bond Restructuring to Afford Additional $2.24 Million toward Capital Improvements in Water

Flint, Michigan – March 19, 2015 – Flint Emergency Manager Jerry Ambrose today authorized a restructuring of four outstanding Drinking Water Revolving Fund (DWRF) bonds to allow postponing current principal payments in the total amount of $2.24 million. This action will allow the $2.24 million budgeted for debt service to be utilized for expenses associated with maintaining safety and improving quality of the Flint water supply. Approval of the State Treasurer is required before the restructuring can occur.

Flint has recently received a final report from Veolia, its water expert advisor, making a series of recommendations to maintain and improve the Flint water supply. These recommendations, and other items identified in the City's current capital improvements plan, will be considered as the City develops and implements its action plan to maintain and improve the Flint water supply. Discussion on the development of the action plan will begin today, March 19, 2015 at the Water Advisory Committee meeting, scheduled to begin at 2:00 pm at the Flint Public Library.

The State of Michigan was instrumental in allowing the restructuring, as approvals are required by both the State Treasurer and the Director of the Michigan Department of Environmental Quality. "At all levels, the State of Michigan has been most cooperative in assisting the City of Flint as it addresses the many issues confronting the Flint water system", said Ambrose. "Access to $2.24 million at this time will be very helpful in moving forward with our action plan."

The proposed restructuring will free up funds to enable the City to more quickly begin implementing recommended improvements to its water treatment and distribution system. Several recommendations for

improvement are currently unbudgeted and the $2.24 million will help assure that the most important can be performed.

Recommendations to be considered include the addition of a Granulated Activated Carbon Filter, estimated at as much as $1.5 million; acceleration of the repair and replacement of values, estimated at an additional $120,000 annually; additional pipeline replacement, estimated at $1 million per mile; and acceleration of the project to automate plant operations, estimated at $450,000. $1.315 million will become available in the City's current fiscal year, and the remaining $925,000 will be available in the next fiscal year.

The bonds are currently financed at a rate of 2.5%, and postponement of the principal payment will incur some additional interest expense over the life of the issue. While the interest rate will not increase, the total interest cost will increase by approximately 2% ($228,000) over the 20 year life of the issues.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

Gerald Ambrose
Emergency Manager

Dayne Walling
Mayor

Jason Lorenz
Public Information Officer
(810) 237-2039
jlorenz@cityofflint.com

For Immediate Release

Flint Emergency Manager Authorizes Bond Restructuring to Afford Additional $2.24 Million toward Capital Improvements in Water

Flint, Michigan – March 19, 2015 – Flint Emergency Manager Jerry Ambrose today authorized a restructuring of four outstanding Drinking Water Revolving Fund (DWRF) bonds to allow postponing current principal payments in the total amount of $2.24 million. This action will allow the $2.24 million budgeted for debt service to be utilized for expenses associated with maintaining safety and improving quality of the Flint water supply. Approval of the State Treasurer is required before the restructuring can occur.

Flint has recently received a final report from Veolia, its water expert advisor, making a series of recommendations to maintain and improve the Flint water supply. These recommendations, and other items identified in the City's current capital improvements plan, will be considered as the City develops and implements its action plan to maintain and improve the Flint water supply. Discussion on the development of the action plan will begin today, March 19, 2015 at the Water Advisory Committee meeting, scheduled to begin at 2:00 pm at the Flint Public Library.

The State of Michigan was instrumental in allowing the restructuring, as approvals are required by both the State Treasurer and the Director of the Michigan Department of Environmental Quality. "At all levels, the State of Michigan has been most cooperative in assisting the City of Flint as it addresses the many issues confronting the Flint water system", said Ambrose. "Access to $2.24 million at this time will be very helpful in moving forward with our action plan."

–CONTINUE–

Gerald Ambrose
Emergency Manager

Dayne Walling
Mayor

The proposed restructuring will free up funds to enable the City to more quickly begin implementing recommended improvements to its water treatment and distribution system. Several recommendations for improvement are currently unbudgeted and the $2.24 million will help assure that the most important can be performed.

Recommendations to be considered include the addition of a Granulated Activated Carbon Filter, estimated at as much as $1.5 million; acceleration of the repair and replacement of values, estimated at an additional $120,000 annually; additional pipeline replacement, estimated at $1 million per mile; and acceleration of the project to automate plant operations, estimated at $450,000. $1.315 million will become available in the City's current fiscal year, and the remaining $925,000 will be available in the next fiscal year.

The bonds are currently financed at a rate of 2.5%, and postponement of the principal payment will incur some additional interest expense over the life of the issue. While the interest rate will not increase, the total interest cost will increase by approximately 2% ($228,000) over the 20 year life of the issues.

–END–

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, March 31, 2015 3:36 PM
To: Kapp, Gene (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Carter, Jerry (MSP); Deasy, Thomas (MSP); Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); Hill, Darryl (MSP); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Lee, Nichole (MSP); McGowan, Emmitt (MSP); Natasha Henderson; Smith, Paul (GOV); Byrne, Randall (Treasury); Sands, Thomas (MSP); Sipes, Stephen (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY); West, Samantha (GOV)
Subject: Bi-Weekly Conference Call Agenda
Attachments: Agenda for Conference Call with Treasury 040115.pdf

Good afternoon,

Please find attached the agenda for the 9:00 am conference call scheduled for **Wednesday, April 1, 2015.**

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Gerald Ambrose, Emergency Manager
Natasha L. Henderson, City Administrator
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Wednesday 9:00am Phone Conference Agenda

April 1, 2015

Not Responsive

	Last Report	Status
1) Public Safety Update – FPD, MSP, (FFD, if needed)		
2) Governor's Office Update – R. Baird, H. Hollin B. Clement		
3) Finance and Administrative Update		

Not Responsive

	Last Report	Status
4) City Council Update	Not Responsive	
5) Water Issues		
a) MDEQ Violation Notice	Most recent TTHM sampling was tested by the MDEQ - confirmed our internal test findings - that water is within federal/state guidelines. Received the violation notice from MDEQ, due to the running average calculation. The notice to customers is being mailed now, with more information included.	Update
b) Drinking Water Revolving Fund	Order #2 was issued to restructure and amend the debt service payments on the DWRF Bonds, by postponing the principal payments	Complete
c) Water Quality Consultant	Final report received. Action steps are being compiled; will focus on TTHM compliance and plans for hardness and discoloration improvement. Installation of granulated activated charcoal (GAC) filter likely.	Update
d) WAC/TAC	A 40 member Water Advisory Committee and a 13 member Technical Advisory Committee (including EPA representative) have met as part of the process of improving communication and receiving additional feedback. WAC 2nd meeting was held 3/19/15. Format under reconsideration.	Update
6) 9-1-1 Reconsolidation Plan	Not Responsive	

	Last Report	Status
7) Transition Activities	Not Responsive	
8) Other Items		

From: Lyon, Nick (DHHS)
Sent: Thursday, December 03, 2015 10:54 AM
To: Baird, Richard (GOV); Clement, Elizabeth (GOV)
Subject: FW: Flint Lead information
Attachments: Flint Lead MDHHS Sitrep 11_30_15.docx; Flint Lead MDHHS Sitrep 12 1_15.docx

FYI. These are the regular reports I am now receiving.

Michigan Department of Health and Human Services Environmental Health

Flint Water Lead Project

MDHHS Situation Report

****NOTE: Contains potentially Identifiable Information- REDACT AS INDICATED****

New items for the day listed first and in bold print.

Daily Briefing and Situation Report

Date: November 30, 2015

Surveillance Indicators: People Tested since 10/1/2015: 1,361;

- Children less than 6 years old ≥ 5 µg/dl since 10/1/2015: 15
- Children 6 to 17 years old ≥ 5 µg/dl since 10/1/2015: 6
- Adults 18 years and older ≥ 5 µg/dl since 10/1/2015: 9

Severity Indicators: Hospitalized/Discharged-1/1; Deaths- 0

DAILY ACTIVITY SUMMARY

Elevated Blood Level (EBL) Environmental Investigations – Wes Priem, Courtney Wisinski

- **Contractor (ETC) has 8 investigations scheduled.**
- **The high EBLL home is scheduled for Friday 12/4/15.**
- DEH-Finalized residential tap water sampling protocol used to evaluate lead concentrations in households
- Contractor (ETC) has completed 1 EBL investigation, but will have to return for water sampling.

MDHHS/Genesee County Health Department (GCHD) Case Management (CM) Services

- No additional updates for 11/30/15
- Week Ending 11/20/15:
    - Number of contacts attempted: 58
    - Contacted and offered case management: 13
- DEH staff developing case management and EBL investigation database
    - compiles blood test results, case management services, and environmental sampling data for each Flint child with elevated blood lead level

Epidemiology/Surveillance – Patti McKane, Martha Stanbury

- **Completed re-evaluation of blood lead testing data from 1/1/2010 to current per the request of the Governor's office. Counts for 10/10/2015 will vary slightly from previously reported because of the change in de-duplication procedures to accommodate yearly counts.**
- **Draft Blood Lead Data report completed and conveyed to Eden Wells, Corinne Miller and Angela Minicuci.**
- Some problems were experienced in accessing all the laboratory electronic data files going back to last week's submissions over the holiday. Most were resolved with help from DTMB, and the

rest should be resolved tomorrow morning. As a result, no daily report was created of newly reported individuals with BLL>20files but we will have this tomorrow.

- 1 child hospitalized PHI <2 yo, identified by lab who contacted primary provider with elevated blood lead level of 52 mcg/dl; hospitalized at Children's PHI follow-up tests decreased without need for chelation- discharged to home PHI
    - GCHD follow-up PHI case management and investigation in process- possible history of lead paint ingestion
    - Child with history of anemia.
    - Other children in household tested, also followed by PCP.

Communications/Information Sharing

- MDHHS/GCHD weekly call Nov 24 3PM- reviewed progress on case management and EBL testing
- Technical Advisory Committee meeting originally scheduled for December 9th- , then postponed by City of Flint, may actually take place: awaiting word from City.

Health Education Resources Updates - Kory Groetsch (stand-in for Michelle Bruneau)

- Bathing-specific fact sheet under development.
- DEH has drafted a phosphate fact sheet, reviewing/revising with DEQ Drinking Water Staff
- DEH working with CLPPP and GCHD to revise parent resources package to reduce reading level.

Toxicology - Kory Groetsch, Jennifer Gray

- Developing Access database to track services provided to EBL children. Meeting held with other DEH staff to begin design.

WIC

- No additional updates for 11/30/15
- Letter sent 11/24 to GCHD about Ready-to-feed formula availability from WIC program
- Talking points for WIC staff and for providers shared

Healthcare/Providers

- No additional updates for 11/30/15
- Forum for primary care providers in Flint by public health being planned- 2nd – 3rd week December
- WIC information to be shared by GCHD to providers

DEQ Information - Linda Dykema as Liaison

- **MDEQ would like to issue school drinking water testing results in coordination with MDHHS release of the blood lead test reporting.**

Flint Water Lead Project

Michigan Department of Health and Human Services
Situation Report for December 1, 2015

****NOTE: Contains potentially Identifiable Information- REDACT AS INDICATED****
New items for the day listed first and in bold print.

Daily Briefing and Situation Report prepared by Linda Dykema

Surveillance Indicators: People Tested since 10/1/2015: 1,361;

Children less than 6 years old ≥ 5 µg/dl since 10/1/2015: 15

Children 6 to 17 years old ≥ 5 µg/dl since 10/1/2015: 6

Adults 18 years and older ≥ 5 µg/dl since 10/1/2015: 9

Severity Indicators: Hospitalized/Discharged-1/1; Deaths- 0

DAILY ACTIVITY SUMMARY

Elevated Blood Level (EBL) Environmental Investigations – ETC Contractors, Wes Priem, Courtney Wisinski

- **2 EBL investigations completed.**
- 8 investigations scheduled.
- The high EBLL home is scheduled for Friday 12/4/15.

MDHHS/Genesee County Health Department (GCHD) Case Management (CM) Services – Nancy Peeler

- **CM report through 11/25/15:**
  - **# of contacts attempted: 136**
  - **# offered CM: 46**
  - **# CM started: 5**
  - **# of children receiving CM who live in Flint: 5**
  - **# billed to Medicaid: 5**
  - **# Other disposition: 2 (2 children moved to Oakland County)**

- **Held call with GCHD staff to clarify and resolve questions about the CM budget. The revised budget will be submitted in eGrams on or about 12/7/15.**

- **Held weekly status call with CM staff at GCHD:**
  - **Need to include developmental screening as part of the CM protocol, and need to share screening results with Early On when a referral is made;**

Epidemiology/Surveillance – Patti McKane, Martha Stanbury, Bob Scott, Jessica Cooper

- Completed re-evaluation of blood lead testing data from 1/1/2010 to current per the request of the Governor's office.
- Revised Draft Blood Lead Data report completed.
- 1 child hospitalized PHI <2 years old, identified by lab who contacted primary provider with elevated blood lead level of 52 µg/dl; hospitalized at Children's PHI follow-up tests decreased without need for chelation- discharged to home PHI

- GCHD follow-up PHI case management and investigation in process- possible history of lead paint ingestion
- Child with history of anemia.
- Other children in household tested, also followed by PCP.

Communications/Information Sharing – Linda Dykema, Eden Wells

- **Weekly (Tues. 8:00 am) coordination call with DEQ/LARA/HHS. Discussed need for informational materials for schools/residents regarding lead free plumbing replacements.**
- MDHHS/GCHD weekly call Nov 24 3PM- reviewed progress on case management and EBL testing
- Technical Advisory Committee meeting originally scheduled for December 9th- , then postponed by City of Flint, may actually take place: awaiting word from City.

Health Education Resources Updates - Michelle Bruneau, Emily Houk

- **Revising Phosphate fact sheet. Will discuss with DEQ Drinking Water staff on 12/2/15**
- Bathing-specific fact sheet under development.
- DEH working with CLPPP and GCHD to revise parent resources package to reduce reading level.
- Working with Healthy Homes Section staff to revise EBL report for Flint Residents.

Toxicology - Kory Groetsch, Jennifer Gray, Lisa Quiggle

- **Working with GCHD and DEQ to address questions concerning impact of phosphate treatment on drinking water filters.**
- **Working with Healthy Homes Section staff to revise EBL report for Flint Residents.**

WIC

- No additional updates for 12/1/15
- Letter sent 11/24 to GCHD about Ready-to-feed formula availability from WIC program
- Talking points for WIC staff and for providers shared

Healthcare/Providers

- **Forum for primary care providers in Flint POSTPONED pending coordination with local providers**
- WIC information to be shared by GCHD to providers

DEQ Information - Linda Dykema as Liaison

- MDEQ would like to issue school drinking water testing results in coordination with MDHHS release of the blood lead test reporting.

From: Lyon, Nick (DHHS)
Sent: Tuesday, December 08, 2015 11:27 AM
To: Baird, Richard (GOV); Wyant, Dan (DEQ); Clement, Elizabeth (GOV)
Cc: Grijalva, Nancy (DHHS)
Subject: FW: Flint Briefing 4Dec15
Attachments: 2015-12-04 - Flint Lead MDHHS Sitrep.pdf

Rich – Per our conversation. Dan/Beth – FYI.

From: Bouters, Janese (DHHS)
Sent: Monday, December 07, 2015 5:07 PM
To: Anderson, Paula (DHHS) <AndersonP3@michigan.gov>; Barr, Jacqui (DHHS) <BarrJ3@michigan.gov>; Becker, Timothy (DHHS) <beckert1@michigan.gov>; Bruneau, Michelle (DHHS) <BruneauM@michigan.gov>; Colston, Leslie (DHHS) <ColstonL@michigan.gov>; DeMyers, Deborah (DHHS) <DeMyersD@michigan.gov>; Dykema, Linda D. (DHHS) <DykemaL@michigan.gov>; Eggleston, Debbie (DHHS) <egglestond@michigan.gov>; Eisner, Jennifer (DHHS) <EisnerJ@michigan.gov>; Granger, Patricia (DHHS) <GrangerP@michigan.gov>; Grijalva, Nancy (DHHS) <GrijalvaN@michigan.gov>; Groetsch, Kory J. (DHHS) <GroetschK@michigan.gov>; Harvey, Janice (DHHS) <HarveyJ1@michigan.gov>; Hertel, Elizabeth (DHHS) <HertelE@michigan.gov>; Kaiser Van Dam, Paula (DHHS) <KaiserP@michigan.gov>; Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Lyon, Nick (DHHS) <LyonN2@michigan.gov>; McKane, Patricia (DHHS) <McKaneP@michigan.gov>; Miller, Corinne (DHHS) <MillerC39@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>; Moran, Susan (DHHS) <MoranS@michigan.gov>; Peeler, Nancy (DHHS) <PeelerN@michigan.gov>; Priem, Wesley F. (DHHS) <priemw@michigan.gov>; Priest, Chris (DHHS) <PriestC1@michigan.gov>; Ridley, Nancy (DHHS) <RidleyN@michigan.gov>; Robinson, Mikelle (DHHS) <RobinsonM18@michigan.gov>; Rockefeller, Cheryl (DHHS) <RockefellerC@michigan.gov>; Scott, Jackie (DHHS) <ScottJ14@michigan.gov>; Shah, Sandip (DHHS) <shahs@michigan.gov>; Sims, Teri (DHHS) <SimsT2@michigan.gov>; Stanbury, Martha (DHHS) <stanburym@michigan.gov>; Stiffler, Kathleen A. (DHHS) <StifflerK@michigan.gov>; Taylor, Kerri (DHHS) <TaylorK10@michigan.gov>; Thompson, Sheryl D. (DHHS) <ThompsonS2@michigan.gov>; Titus, Laura (DHHS) <TitusL@michigan.gov>; Travis, Rashmi (DHHS) <TravisR@michigan.gov>; Wells, Eden (DHHS) <WellsE3@michigan.gov>
Subject: Flint Briefing 4Dec15

Sending on behalf of the PHCSA:

Attached is the MDHHS daily situation report for the Flint water lead project.

Thanks,

Janese Bouters
Executive Secretary to Corinne Miller
Bureau of Disease Control, Prevention and Epidemiology
Michigan Department of Health & Human Services
201 Townsend Street
Lansing, Michigan 48913
Phone: (517) 335-8731
Fax: (517) 335-8263

Flint Water Lead Project

Michigan Department of Health and Human Services
Situation Report for December 4, 2015

NOTE: Contains potentially identifiable information- REDACT AS INDICATED
New items for the day listed first and in bold print.

Daily Briefing and Situation Report prepared by Linda Dykema

Surveillance Indicators: People Tested since 10/1/2015: 1,361;
Children less than 6 years old ≥ 5 µg/dl since 10/1/2015: 15
Children 6 to 17 years old ≥ 5 µg/dl since 10/1/2015: 6
Adults 18 years and older ≥ 5 µg/dl since 10/1/2015: 9
Severity Indicators: Hospitalized/Discharged-1/1; Deaths- 0

DAILY ACTIVITY SUMMARY

Elevated Blood Level (EBL) Environmental Investigations – ETC Contractors, Wes Priem, Courtney Wisinski

- **EBL investigation for high EBLL home completed on Friday 12/4/15.**
- 3 EBL investigations completed.
- 8 investigations scheduled.

MDHHS/Genesee County Health Department (GCHD) Case Management (CM) Services – Nancy Peeler

- **Child with EBLL of 52 µg/dl: blood level has decreased to 28 µg/dl per confirmed lab report.**
- CM report through 11/25/15:
  - # of contacts attempted: 136
  - # offered CM: 46
  - # CM started: 5
  - # of children receiving CM who live in Flint: 5
  - # billed to Medicaid: 5
  - # Other disposition: 2 (2 children moved to Oakland County)

Epidemiology/Surveillance – Patti McKane, Martha Stanbury, Bob Scott, Jessica Cooper, Karen Lishinski

- **EPA, CDC, MDHHS, local health department call scheduled for later this week to discuss Legionellosis.**

Filter Distribution Sheryl Thompson

- November Distribution
  - 778 Filters
  - 63 Pitchers
  - 924 Replacement Filters
- Total Distribution since October 1, 2015
  - 10,951 Filters
  - 184 Pitchers
  - 924 Replacement Filters

Communications/Information Sharing – Linda Dykema, Eden Wells

- **EPA drinking water experts will present to Technical Advisory Committee meeting on December 9th. Topics will include water treatment/corrosion, the status of Flint's water and next steps.**

Health Education Resources Updates - Michelle Bruneau, Emily Houk

- **Finalized Phosphates fact sheet with GCHD; sent final version to MDHHS Communication office to be finalized and posted on the website.**
- **Bath time poster finalized and forwarded to HHS Communications/PIO for review and approval.**
- **Per Emily Houk, mailed 1000 Keep Your Child Lead-Safe booklets (English), 500 Keep Your Child Lead-Safe booklets (Spanish), and 4 boxes of Fight Lead Poisoning with a Healthy Diet to GCHD.**
- **Finalized time/date of technical meeting with GCHD to discuss phosphate dosing and health (Wednesday, 12/9; 9:30-11a).**
- Pending: Aerator/Filter Maintenance Fact Sheet; Flint Parent Letter re-do in partnership with Emily Houk.

Toxicology - Kory Groetsch, Jennifer Gray, Junaid Maqsood, Veronica Tijerina

- **Collaborating with Surveillance, CM, and EBL response staff to develop a Data Dictionary and Database to track services provided to EBL children/families.**
- Working with GCHD and DEQ to address questions concerning impact of phosphate treatment on drinking water filters.
- Working with Healthy Homes Section staff to revise EBL report for Flint Residents.

WIC

- Letter sent 11/24 to GCHD about Ready-to-feed formula availability from WIC program
- Talking points for WIC staff and for providers shared

Healthcare/Providers

- **Drafted HAN to Flint healthcare providers for review by the project communications team and GCHD. The HAN encourages enhanced BLL testing for children less than six, particularly outside of the 1 and 2 years of age that are required by Medicaid.**
- Moran, Wells and Miller met with Medicaid health plan staff 2 to discuss increased promotion by health plans of EBL testing of Flint children < 6 years of age. Status update on Flint provided. Medicaid put this issue on its agenda for discussion at its December 3 meeting with Medicaid health plan CEOs and suggested inviting Dr. Wells to speak to Medicaid health plan medical directors.
- Medicaid identified three individuals to partner with epidemiology staff to develop methodology to measure/report progress on the percentage of Flint children enrolled in Medicaid who receive EBL testing.

DEQ Information - Linda Dykema as Liaison

- No updates for 12/4/2015.

From: Kelenske, Chris (MSP)
Sent: Wednesday, December 30, 2015 10:29 PM
To: Baird, Richard (GOV)
Cc: Etue, Kriste (MSP); Clement, Elizabeth (GOV)
Subject: RE: Attorney Client Work Product (Draft), Privileged and Confidential
Attachments: A Proposal to Create the Flint Water Inter cak rev.docx

Not Responsive

From: Baird, Richard (GOV)
Sent: Wednesday, December 30, 2015 6:57 PM
To: Agen, Jarrod (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Kelenske, Chris (MSP); Holland, Meegan (GOV); Murray, David (GOV); Redford, James (GOV); Becker, Timothy (DHHS); Creagh, Keith (DNR); Roberts, John (DTMB)
Cc: Etue, Kriste (MSP); Lyon, Nick (DHHS)
Subject: Attorney Client Work Product (Draft), Privileged and Confidential

Team:

Today Harvey and I met with the Flint Water Task Force. It was a good meeting. People were pleased with the G's statement from the prior day. Captain Kelenske joined us and we had a very good discussion about moving forward with the creation of the Flint Water Crisis Agency Coordinating Committee (FIACC). Tim Becker and Captain Kelenske provided me with a fair amount of input. I also read the City of Flint Incident Action Plan for a State of Emergency which Chris received today (enclosed for those who wish to read it as well). I have distilled all of this into a two page plan that I want your edits and comments on and a one page organizational chart (now presented in the "governor's colors" according to our fine people in Communications). Spoiler alert—I made Captain Kelenske Vice Chair of the whole shebang (with the Colonel's blessing) so Harvey wouldn't get lonely.

Here is my ask of you:

1) Within 24 (sooner if you can) hours give me your comments and input
2) Tomorrow I will turn around a final document for Jarrod to review with the Governor either New Year's Day or Saturday
3) Ideally, Governor will approve Harvey sending it to Mayor Weaver Saturday (Sunday latest)
4) Mayor needs to know that this is what the Governor wishes to discuss at the meeting January 7 along with financial resources that we still need some estimates on cost from DHHS for
5) Meegan and Dave need to noodle how best to get out front with this and change the narrative focus on Monday's Genesee County declaration of emergency

I know we are all working way too hard for what should be a rest and recharge period but I do appreciate everyone's efforts and I know the Boss really does as well.

Regards,

Rich

A Proposal to Create the Flint Water Inter-Agency Coordinating Committee (FIACC)

In collaboration with the Flint After-Action Task Force, MSP Captain Chris Kelenske, DHHS Chief Deputy Tim Becker and DHHS Director Nick Lyon, Harvey Hollins and Rich Baird are recommending the immediate creation of the above referenced entity, with its sustained role and responsibility enabled under the Governor's Executive Order.

Statement of Need

Due to a combination of resource constraints, inexperienced personnel, "silo" bureaucratic processes and reactionary approaches to immediate problems, there is a ~~nearly complete~~ lack of coordination, communication, and connected management amongst all the departments and stakeholders who must work together to ensure Flint's return to clean, safe water and to coordinate mid and long term efforts to mitigate and address future health and behavioral consequences from lead ingestion. This group MUST be stood up regardless of whether (or when) the conditions required for a declaration of emergency are met by the City, County, State or Federal authorizers. This coordinating body must include:

- The creation of a routine information process between all parties.
- Pursuit of other avenues of funding including federal grants and legislative appropriations.
- While the Emergency Management Act or the Stafford Disaster Relief and Emergency Assistance Act may not be mechanisms to fix all the issues in Flint, portions of the Emergency Management Act outlining management of emergencies or disasters ~~events~~ are applicable and should be implemented without delay (e.g. Local emergency operations plans/emergency operations guides as well as emergency operations support plans).

Action Plan and Establishing the FIACCC

It appears that a request for a Governor's declaration may be from the county as soon as January 4, 2016. The state's Deputy State Director of Emergency ~~Coordinator~~ Management and Homeland Security (Capt. Kelenske) will evaluate the request and provide a recommendation whether to issue a declaration, following established protocol and due diligence. But immediately, we will:

1. Establish an interagency workgroup Chaired and Vice-Chaired by Harvey Hollins and Chris Kelenske, respectively, and be comprised of DHHS, MDEQ, MSP, Treasury, Genesee County, City of Flint, MDE, LARA and external Subject Matter Experts (SMEs). Civil Rights may be added at a later time. If additional agencies/stakeholders who can assist with accomplishing the action plan are needed, they will be added. Personnel must be goal oriented, transparent with findings and measures of progress, and able to work toward accomplishing the Incident Action Plan created by the state in a timely manner. A draft Organization Chart is attached under separate cover. Staff will be needed that is familiar with disaster/emergency planning, operations, logistics, and finance as outlined by the National Incident Management System (NIMS). These management components would report to the chair/vice chair and ensure resource requests are tracked and the incident action plan objectives are created, documented, and completed.
2. This body should be created by Executive Order and it must complement and not replace the current system under the Emergency Management Act. In fact, it should demonstrate how to best leverage support where existing laws fall short under a man-made emergency.
3. Utilize the National Incident Management System and Unified/Incident Command as appropriate.
4. Establish routine communications protocols at the operational, executive, and legislative levels as determined appropriate.

5. Establish interagency workgroup objectives using the following as a starting point.

Interagency Workgroup Objectives

1. Determine and convey acceptable standards for potable water.
   - Identify needed remediation.
   - Convey the remediation plan objectives to all stakeholders and interested parties.
   - Logistics plan for distribution and serving homebound citizens with water and filtration
   - Implement the plan.
2. Determine health impacts for the impacted population.
   - Identify treatment methods.
   - Nutrition education and support
   - Coping with lead exposure (care, monitoring, neurodevelopmental screening, access to DBP specialists, psychologists/psychiatrists, expanded county services, etc.)
   - Convey the treatment plan objectives to interested parties.
   - Implement the plan.
3. Establish a public information protocol to effectively inform the community of the situation and actions taken.
   - Identify existing Public Information outlets within the city, county, and state.
   - Establish a Joint Information Center
   - Provide for Emergency Alerts and Updates
   - Leverage public and private education schools
   - Determine official information flow and approval of information.
   - Convey to interested parties.
4. Assess the status of the infrastructure and determine feasible actions to upgrade the water system.
   - Determine current state of the infrastructure.
   - Develop priorities, costs, and potential funding sources for infrastructure upgrades as part of a long term recovery plan.
   - Seek partners to assist (NGOs, Foundations, Business, etc.)
   - Implement the plan.

Final Thoughts

After the team provides input to this document, I would ask that Governor Snyder review and approve the approach, authorize Harvey Hollins to get the plan to Mayor Weaver no later than this weekend, and then proactively communicate the plan regardless of whether we get an Emergency declaration or not.

Also, we do not believe ~~setting up~~activating ~~an Emergency Command~~the State Emergency Operations Center (SEOC) ~~which requires 24/7 staffing~~ is sensible until AFTER Genesee County has demonstrated they did all they could, utilized all available resources to include contracts and mutual aid, and couldn't solve the problem. Additionally, this incident is more in the recovery phase where other types of coordination center are utilized. That is what is required under the ~~law~~Emergency Management Act.

Comment [CK1]: We do not always have 24 our staffing. It is dependent upon the incident.

From: Clement, Elizabeth (GOV)
Sent: Tuesday, December 08, 2015 2:29 PM
To: Lyon, Nick (DHHS); Baird, Richard (GOV)
Subject: RE: Flint Lead information

Are these sent to the Gov and if so, how often?

From: Lyon, Nick (DHHS)
Sent: Thursday, December 3, 2015 10:54 AM
To: Baird, Richard (GOV) <bairdr@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>
Subject: FW: Flint Lead information

FYI. These are the regular reports I am now receiving.

From: Clement, Elizabeth (GOV)
Sent: Tuesday, December 08, 2015 4:35 PM
To: Lyon, Nick (DHHS)
Cc: Baird, Richard (GOV)
Subject: Re: Flint Lead information

I don't think that is necessary. I was just checking.

Sent from my iPhone

On Dec 8, 2015, at 4:25 PM, Lyon, Nick (DHHS) <LyonN2@michigan.gov> wrote:

> We were doing a less formal version and sending to Dan before last week. We had agreed that he'd put together the responses for the 10 point plan. We were providing updates to Dan a couple of times per week. I wanted to know more so I've asked for these on a daily basis.
>
> I have not sent to the Gov. I can if you want me to. I could send to him and copy Dan.
>
> On Dec 8, 2015, at 2:29 PM, Clement, Elizabeth (GOV) <clemente@michigan.gov> wrote:
>
> > Are these sent to the Gov and if so, how often?
> >
> > ---
> >
> > **From:** Lyon, Nick (DHHS)
> > **Sent:** Thursday, December 3, 2015 10:54 AM
> > **To:** Baird, Richard (GOV) <bairdr@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>
> > **Subject:** FW: Flint Lead information
> >
> > FYI. These are the regular reports I am now receiving.

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, December 17, 2013 9:31 AM
To: Baird, Richard (GOV); BymeR1@michigan.gov; Deasy, Thomas (MSP); Etue, Kriste (MSP); Kapp, Gene (MSP); Lee, Nichole (MSP); Muchmore, Dennis (GOV); Roberts, John (GOV); Sands, Thomas (MSP); Sipes, Stephen (MSP); West, Samantha (GOV); Dempkowski, Angela (Treasury); Larkin, Brian (GOV); Darnell Earley; Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Weekly Conference Call Agenda - December 18, 2013
Attachments: Weekly Phone Conference Agenda Dec..doc

Good morning,

Attached is the agenda for the Wednesday, December 18, 9:00 am conference call.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Weekly 9:00 am Phone Conference Agenda

1)
2)
3)
4) Not Responsive
5)

6) KWA, Water Plant Preparation, Water/Sewer Rate Study

7)
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12) Not Responsive
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Created on 12/4/2013

From: Maxine Murray <mmurray@cityofflint.com>
Sent: Tuesday, January 07, 2014 2:11 PM
To: Baird, Richard (GOV); BymeR1@michigan.gov; Deasy, Thomas (MSP); Etue, Kriste (MSP); Kapp, Gene (MSP); Lee, Nichole (MSP); Muchmore, Dennis (GOV); Roberts, John (GOV); Sands, Thomas (MSP); Sipes, Stephen (MSP); West, Samantha (GOV); Dempkowski, Angela (Treasury); Larkin, Brian (GOV); Darnell Earley; Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Weekly Conference Call Agenda
Attachments: Weekly Phone Conference Agenda - January 8, 2014.doc

Good afternoon,

Attached is the agenda for the Wednesday, January 8, 9:00 am conference call.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Weekly 9:00 am Phone Conference Agenda

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Not Responsive

8) KWA, Water Plant Preparation, Water/Sewer Rate Study

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17)
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Not Responsive

Created on 01/7/14

From: Baird, Richard (GOV)
Sent: Friday, October 18, 2013 1:59 PM
To: Ken Buckfire (ken.buckfire@millerbuckfire.com)
Subject: FW: Press Release: EM Statement on Water
Attachments: Earley Statement on Water.pdf; WaterPres053112.PDF; Cost Comparison. KWA v DWSD.pdf

---

From: Jason Lorenz [jlorenz@cityofflint.com]
Sent: Friday, October 18, 2013 10:38 AM
Subject: Press Release: EM Statement on Water

The attached release contains an official statement from Emergency Manager Darnell Earley regarding water issues.

Also attached are the water presentation from May, 2012 and the cost comparison report of KWA & DWSD from October, 2012 that were referenced in today's EM press briefing.

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com<mailto:jlorenz@cityofflint.com>

CITY OF FLINT
OFFICE OF EMERGENCY MANAGER
DARNELL EARLEY

Jason Lorenz
Public Information Officer
(810) 237-2039
jlorenz@cityofflint.com

For Immediate Release

Emergency Manager Darnell Earley Committed to Increased Transparency and Detailed Information on Water Rates

Flint, Michigan – October 18, 2013 –Flint Emergency Manager Darnell Earley has today announced that the City of Flint's water issues will be one of his key concerns in his new role and a top priority for his team. With the major decision to join the Karegnondi Water Authority made and the beginning of construction on the water intake and pipeline approaching, Mr. Earley expressed his commitment to thoroughly reviewing and assessing the scope of the issues in the following statement:

"Good management can only be accomplished with a careful examination of the facts; I want my efforts to reflect data driven decisions made with the most accurate information obtainable. As I said when I arrived, I will be making the areas of most concern to Flint residents my top priorities; the future of Flint's water supply, water system and the cost of operation and maintenance are as important to Flint residents as public safety or any other major obligations of a full service city such as Flint.

–CONTINUE–

CITY OF FLINT
OFFICE OF EMERGENCY MANAGER
DARNELL EARLEY

I also want to be transparent in what we glean from this exercise; through this initiative I will keep the public as informed on the process as I am as we go forth. It is for that reason that I plan to examine this issue with the help of an independent, third party consultant in order make a fair and impartial assessment. The goal of this assessment is to ensure that the long term costs of the KWA decision are accurately and openly reflected in the water rates charged to residents and businesses.

Water prices are a key concern to Flint water users, so as we look forward we want to provide them with an understanding of how they are set and to inform residents of available assistance. We currently have a poverty exemption for a portion of water and sewer charges available to low income homeowners and a lowered water deposit for low income renters. The City of Flint has done all that it can in the short term to ease the burden of water increases. Now is the time to look to the future; we want to ensure that our residents get the best possible service at the best cost through a sustainable system and a process that is self supporting for decades to come."

-Darnell Earley
Flint Emergency Manager

–END–

City Hall
1101 S. Saginaw Street - Flint, Michigan 48502
810-766-7346 FAX: 810-766-7218 www.cityofflint.com

City of Flint

Water Forum

5/30/2012

City Of Flint Water Forum

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Frequently Asked Questions 4

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Improvements for City of Flint Water System 13

City Of Flint Water History Facts

Current Treatment Plant was put into service in 1954.

Current 72" main pipeline was completed in 1970.

Flint signed a 30 year contract with Detroit water and Sewer Department in the mid 1960's.

The contract with DWSD has expired and we are currently operating on a yearly extension.

In 2006 Flint completed a $48,000,000 upgrade of the existing Water Plant. (Required by the MDEQ & for backup only).

Flint's Water & Sewer System is approximately a 300,000,000 Enterprise.

Flint's Water & Sewer System is designed to deliver water to over 200,000 people with over 1,500 miles of infrastructure.

Flint's most recent census count shows a population of approximately 102,000 in 2010.

Flint's census population in 2000 was approximately 124,000.

The water system had over 45,000 customers in June of 1999.

The water system had just over 36,000 customers by June 2011.

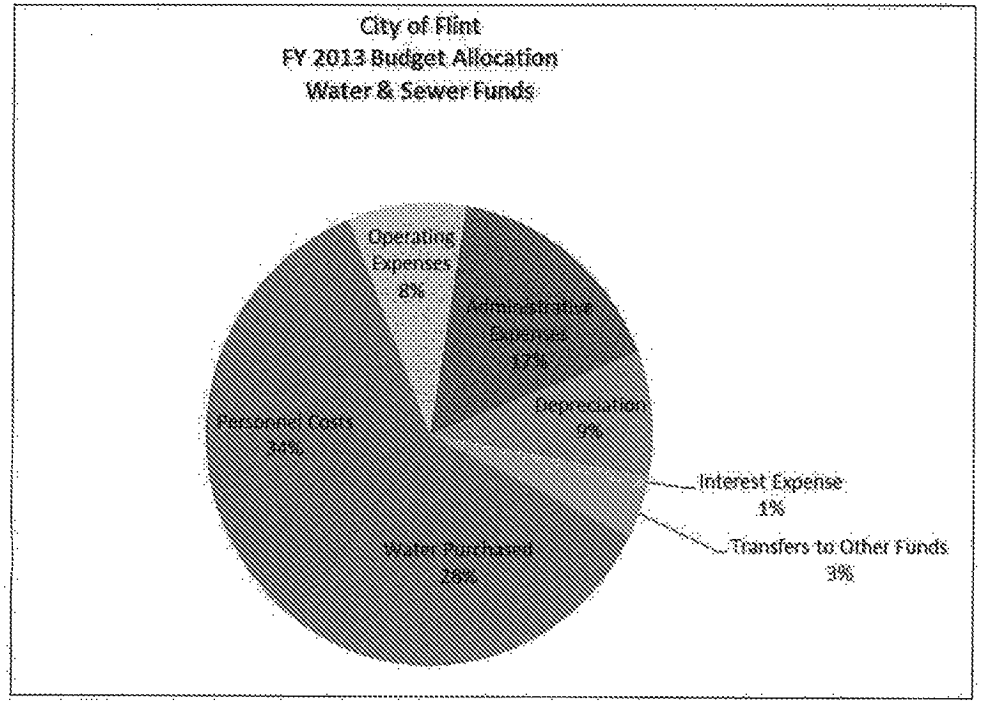
The "Fixed Costs" that must be covered to maintain the system and deliver quality water have increased over time.

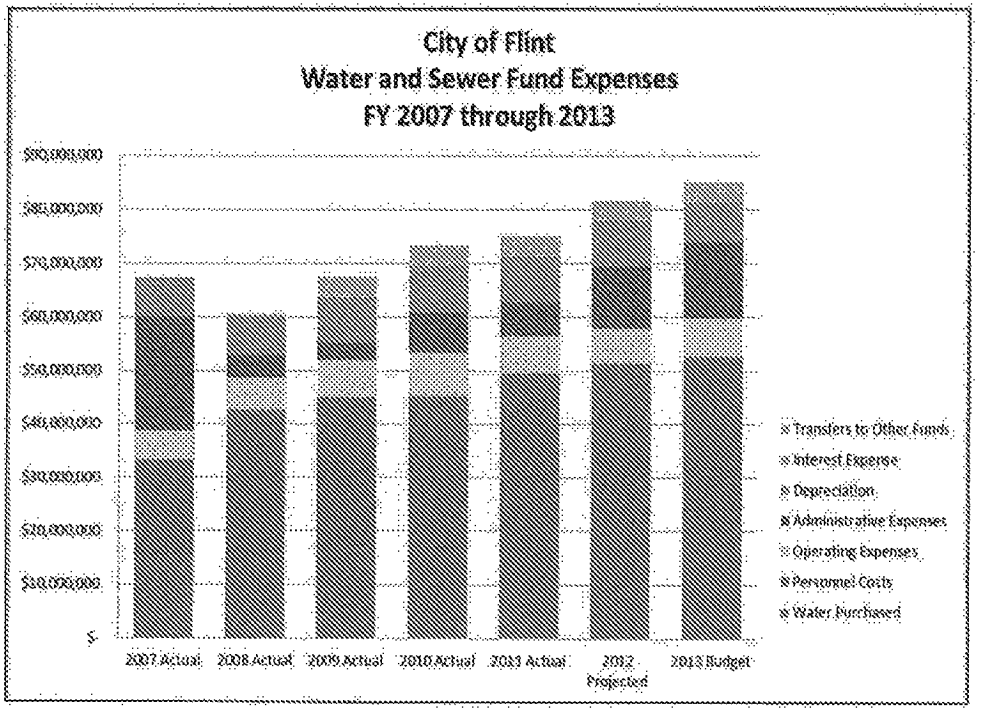
City Of Flint
Most Frequently Asked Questions about Water

- ❑Why are the water rates so high ?
- ❑How does my water bill work (Explanation of charges) ?
- ❑Why do others in the area pay less for the same amount of water ?
- ❑Where has all of the water and sewer fund money gone ?
- ❑What do I do if I think my bill is incorrect ?
- ❑What effect does leakage or theft have on my bill ?
- ❑How can I report water theft ?
- ❑Why don't we go back to using the Flint River like we once did ?

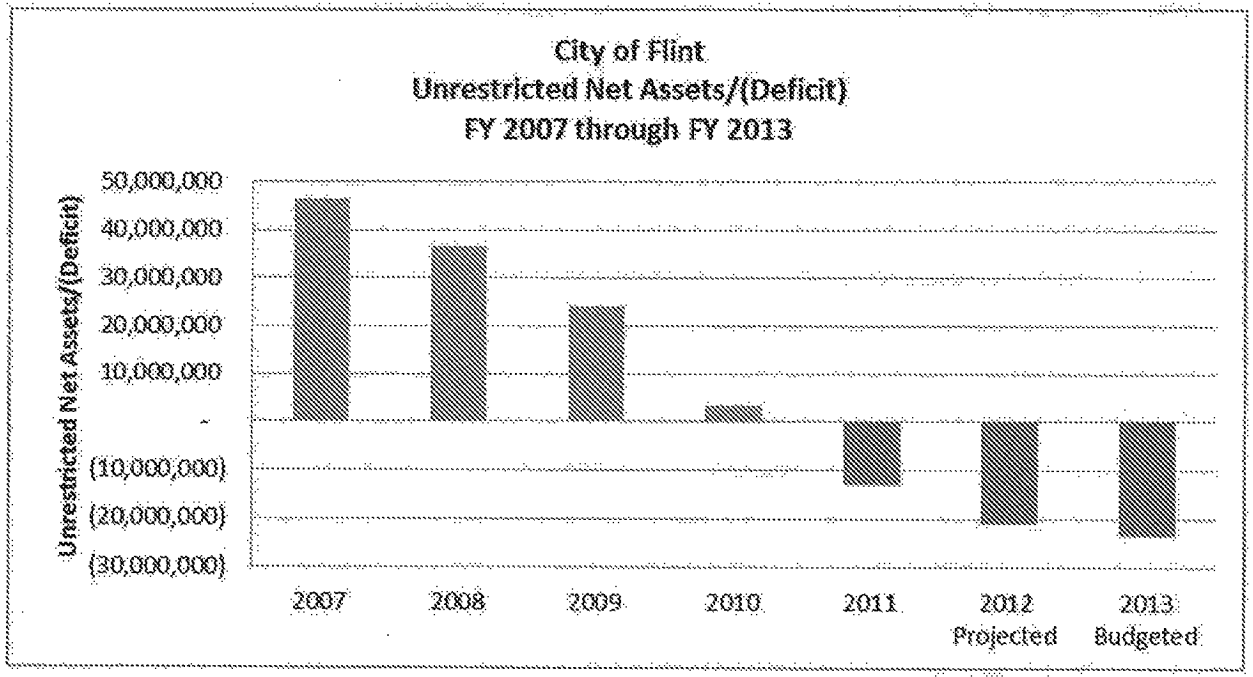
City of Flint

Budget Allocation and Fund Expenses

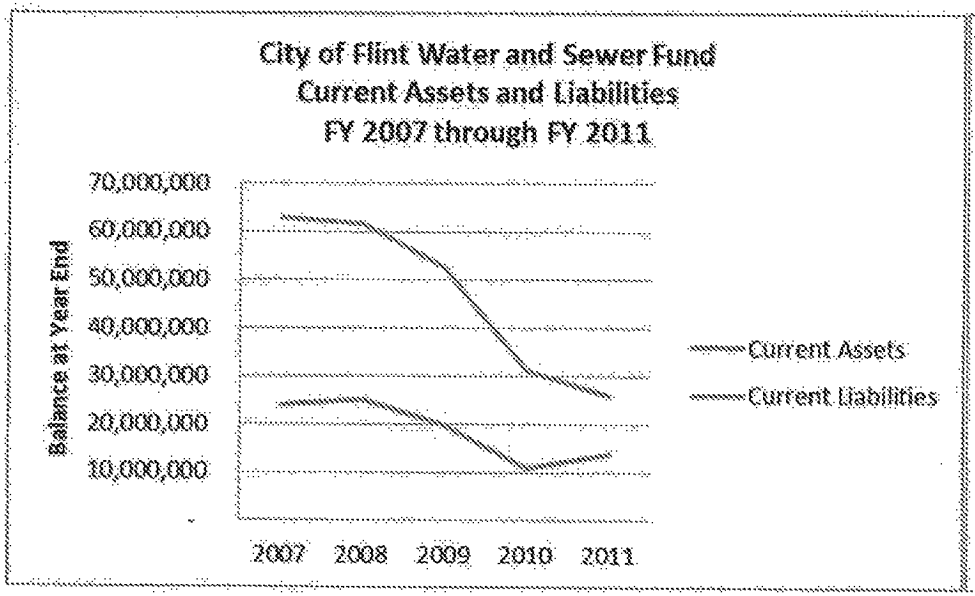


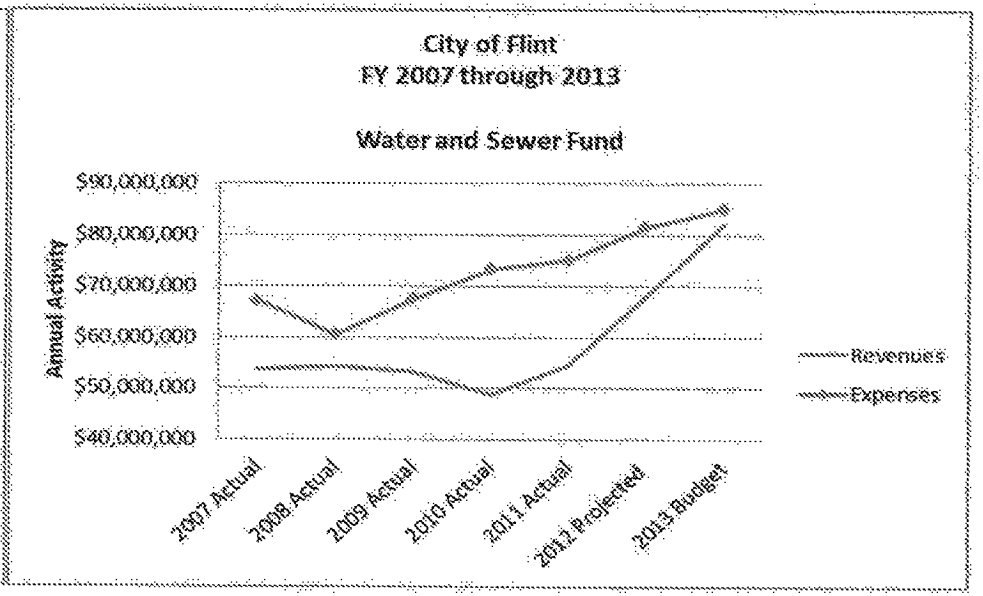


	Audited 2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Projected	2013 Budget
Operating Revenues	51,090,679	51,100,332	51,906,553	47,926,589	54,385,644	67,983,044	81,734,552
Other Revenues	2,627,939	3,274,450	1,442,383	764,886	68,645	126,670	455,867
Annual Revenues	53,718,618	54,374,782	53,348,936	48,691,475	54,454,289	68,109,714	82,190,419
Water Purchased	16,052,006	16,297,871	17,421,663	17,103,752	20,919,987	21,756,787	24,031,417
Personnel Costs	17,292,444	26,302,590	27,591,206	28,149,946	28,618,817	29,640,499	28,546,350
Operating Expenses	5,355,638	6,145,119	6,950,534	8,146,390	6,917,964	6,420,260	7,259,290
Administrative Expenses	21,300,900	4,229,382	3,403,231	7,327,630	6,221,627	11,465,462	14,140,047
Depreciation	7,217,142	7,132,870	8,364,022	8,854,889	8,689,809	8,615,000	7,500,000
Interest Expense	86,632	485,499	868,031	812,270	754,890	705,150	644,314
Transfers to Other Funds	-	-	2,990,000	2,990,000	2,990,000	2,990,000	2,990,000
Annual Expenses	67,304,762	60,593,331	67,588,687	73,384,877	75,113,094	81,593,158	85,111,418



	2007 Actual	2008 Actual	2009 Actual	2010 Actual	2011 Actual	2012 Projected	2013 Budget
Revenues	53,718,618	54,374,782	53,348,936	48,691,475	54,454,289	68,109,714	82,190,419
Expenses	67,304,762	60,593,331	67,588,687	73,384,877	75,113,094	81,593,158	85,111,418

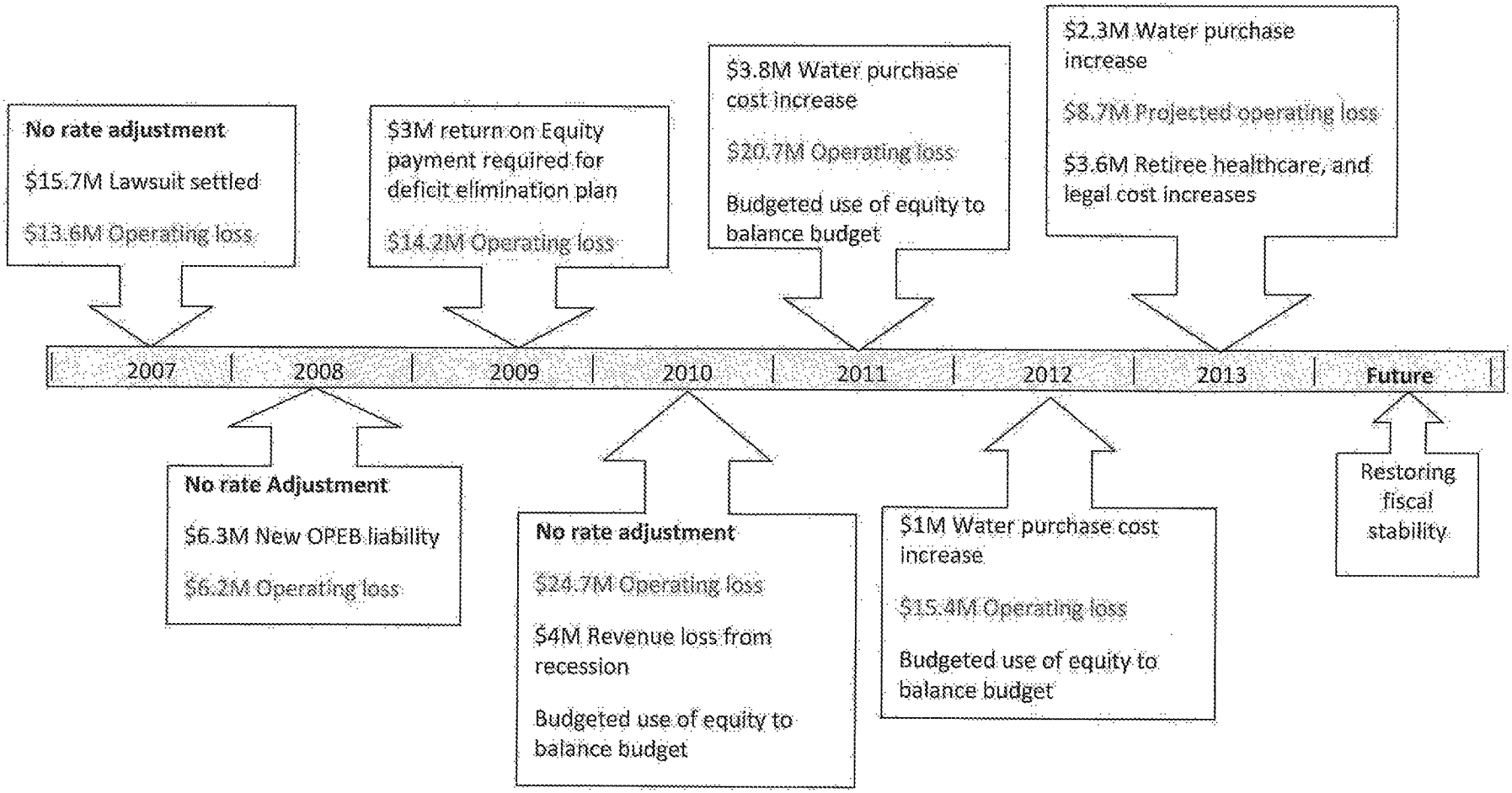




City of Flint

Recent Timeline of Water and Sewer Funds

FY 2007 through 2013



City of Flint- Water and Sewer System Additional Asset / Revenue Data

The average annual residential water sewer bill in FY2005 was less than $700 annually
The average annual residential water/ sewer bill in FY13 will be nearly $1,700

Expenses have exceeded revenues every year since 2006:

FISCAL YEAR	Rate Base	Revenues	Expenses	Revenues Minus Expenses	Unreserved System Equity	FACTORS IMPACTING SOLVENCY			COST IMPACT
2006	2005	$55,204,242	$50,933,792	**$4,270,450**	**$60,340,013**				
									(millions)
2007	2005	$53,856,857	$67,442,993	($13,586,136)	$46,399,452	No rate adjustment			??
						$15.7 million lawsuit settlement	15.7	0	$15.7
2008	2005	$54,374,781	$60,593,331	($6,218,550)	$36,482,488	No rate adjustment			??
						OPEB liabilities added	3.6	2.7	$6.3
2009	2009	$53,488,463	$67,728,218	($14,239,755)	$24,023,065	ROE payment added as part of City I	1.9	1.1	$3.0
2010	2009	$48,820,329	$73,513,725	($24,693,396)	$3,531,768	No rate adjustment			??
						Use of retained earnings budgeted	12.5	0.5	$13.0
						Revenue lost due to recession	2	2	$4.0
2011	2011	$54,527,079	$75,185,879	($20,658,800)	($12,868,907)	Use of retained earnings budgeted	7.1	3.5	$10.6
	2011					Water purchase cost increase	0	3.8	$3.8
2012		$68,279,187	$83,682,840	($15,403,653)	($20,694,122)	Use of retained earnings budgeted	5.1	0	$5.1
						Water purchase cost increase	0	0.8	$0.8
2013	2013	$82,220,420	$90,970,420	($8,750,000)	($23,379,890)	Water purchase cost increase	0	2.3	$2.3
						RHC/Legal/Admin Cost Allocation	2.1	1.5	$3.6
				($99,279,940)					$68.2

Calculation of Water and Sewer Rates for FY13 Budget

March, 2012:

	Expense Projection Based on FY12 Costs	Revenue Projection Based on FY12 Receipts	Difference Between Projected Revenues and Expenses	Rate Increase Necessary To Close Gap
Water	$49.9	$44.4	-$5.5	12.4%
Sewer	$31.0	$21.4	-$9.6	44.9%
TOTAL	$80.9	$65.8	-$15.1	22.9%

CITY of FLINT, MICHIGAN
WATER &/OR SEWER BILL

Service at: 5610 BALDWIN BLVD

TREASURER
CITY OF FLINT
P.O. BOX 1950
FLINT, MI 48501

PRESORTED
FIRST CLASS MAIL
US POSTAGE PAID
CITY OF FLINT

3419 Active

ACCOUNT NUMBER	DUE DATE
PPI	02/28/2012
	NET AMOUNT DUE
	147.85

RETURN THIS STUB WITH YOUR PAYMENT

Seq=3138

**AUTO

PPI

00000376810000014785022820120000014913777O6

KEEP THIS PORTION FOR YOUR RECORDS

LAST READ/DATE/TYPE	NEW READ/DATE/TYPE	CONS	SERVICE	CHARGE
3617 01/06/2012 A	3674 02/03/2012 A	2	Sewer Administration	8.63
			Sewer Svc Chg	22.07
			Water	13.36
			Water Svc Chg	18.35

Prev. Balance	161.08
Payments	-75.00
Adjustments	0.00
Current Penalty	0.36
New Charges	61.41
Total Due	147.85
Due Date	02/28/2012

ACCOUNT: PPI SERVICE AT: PPI

PENALTY ASSESSED 30 DAYS AFTER DUE DATE

CITY OF FLINT
DEPARTMENT OF FINANCE

Customer Service Center

Dayne Walling
Mayor

Douglas Bingaman
Treasurer

CITY OF FLINT
WATER NON-PAYMENT TURN-OFF POLICY

1. Water services to any customer may be shut off if the account is not paid until after 30 days after the due date. (City ordinance 46-52 (h))

2. Non-payment turn-offs are done only Monday through Thursday. The Customer Service Center does not schedule non-payment turn-offs on Fridays, Saturdays, Sundays, or most recognized holidays.

3. Illegal usage, broken payment arrangements and NSF (non-sufficient funds) turn-offs are done at any time without additional notice.

4. Turn-off notices are mailed to delinquent customers fifteen (15) days before actual turn-off.

5. The water customer is responsible for maintenance of all plumbing in the premises including connection to City water mains or sewer lines.

6. If a customer disputes a water bill and is unable to resolve the issue with Customer Service personnel, the customer may request an administrative review. Further information on any water account may be obtained by calling (810) 766-7015 or visiting the Customer Service Center at 1st Floor, City Hall, 1101 S. Saginaw St.

Preliminary Options for Future City of Flint Water Sources

Consider a New Negotiated Contract with Detroit Water and Sewer Department

PRO'S	CON'S
No upfront capital costs	Lack of control over new / fixed changes
Possibility to negotiate a lower rate	Past practices
Ability to "Blend" water sources to further control costs	

Consider a Contract with the Karegnondi Water Authority

PRO'S	CON'S
Voting member of KWA board	Capital cost (debt service)
Ability to "Blend" water sources to further control costs	Uncertainty of final costs
Raw water is an asset for attracting new buisnesses	

Blended Use of the Flint River

PRO'S	CON'S
Helps control cost of water	

*** CURRENTLY NO DECISIONS HAVE BEEN MADE REGARDING THE FUTURE WATER SOURCE

Improvements for City of Flint Water System

Reduce Leakage

▪**Finalize a Preventative Maintenance Plan**
- (Planning started in January 2012, requires funding, … part of Operational Costs)
- Will help identify repair area's

▪**Reduce water theft**

▪**Replace water meters**
- We currently have an eighteen month plan to replace all meters with more efficient *"Smart Meters"*

▪**Encourage routine household checks**
- "Faulty" toilets are a significant reason for household water loss. and unexpected larger bills.

Other Leakage concerns

✓Transmission Loss

✓Fire Hydrants

✓Incorrect water bills

✓Non-Payment

CITY OF FLINT, MICHIGAN
Department of Finance

City Hall, Room #203
1101 South Saginaw Street
Flint, MI 48502
(810) 766-7268 / (810) 766-8675 (fax)

Dayne Walling
Mayor

Edward J. Kurtz
Emergency Financial Manager

Michael K. Brown
City Administrator

Gerald Ambrose
Finance Director

October 31, 2012

Edward J Kurtz
Emergency Financial Manager
City Of Flint Municipal Center
1101 S. Saginaw Street
Flint, MI 48502

RE: Cost Comparison, KWA v DWSD

Mr. Kurtz:

The City of Flint is considering whether joining the Karegnondi Water Authority (KWA) is a better alternative for the residents and businesses of Flint than continuing to purchase water from the Detroit Water and Sewer District (DWSD).

An important part of this consideration is the relative cost of the alternatives. We have compared the current projected costs of continuing to purchase water from DWSD to the projected costs of purchasing water from KWA.

The projected costs of purchasing water from DWSD come from our current and past experience, as well as statements from DWSD about their future costs. The costs of purchasing water from KWA are based on the KWA Lake Huron Water Supply Study, as updated by its October 2012 Preliminary Engineering Report Update, Appendix 20, dated October 4, 2012.

Based on the current contract with DWSD, the FY13 cost of purchasing water for the City of Flint only (excluding the sale of water to Genesee County) is budgeted at $14.4 million. Past experience indicates that it is reasonable to assume a 10% increase annually in the capacity charge from DWSD and a 5% increase in the commodity cost. It is also reasonable to assume a 5% increase in operational costs for the Flint Water Treatment Plant. Consequently, it appears that the costs for continuing to purchase water from DWSD will increase to $22.7 million by FY20.

Conversely, joining KWA and participating in the construction of infrastructure to receive water will require an up-front cost to the City of $2.3 million, to be paid over the first three years of joining. This would be paid by the City during the construction period while the City continues to purchase its water from DWSD. However, once the construction is complete and water delivery commences, the City's capacity charge will be fixed, based on the debt service necessary to finance construction. Operational costs for KWA water delivery and the Flint WTP are projected to increase by 5% annually.

Based on the assumptions in this comparison, the annual projected cost of purchasing water for the City of Flint is 15% or $2.6 million LESS using the KWA option in the first year of operation, increasing to 27% or $6.1 million LESS in the fifth year of operation. The only caveat is that in order to achieve this, the City will need to upfront KWA $3.25 million over 3 years prior to KWA beginning water delivery.

Concerns have been raised about the potential of cost overruns and delays in construction. These are reasonable concerns. An additional analysis, assuming a 15% cost overrun, and a one-year delay in construction, indicates that the gain to be achieved from participating in KWA is lessened (from $2.6 million in the first year to $2.3 million) and the City's upfront contribution is increased to $10.4 million if the City is required to make its first year's debt service payment before operations begin. The City's gain from participating in KWA is delayed, but once operations begin, the City's annual costs are less than continuing with DWSD, becoming net positive in FY20. However, given the City's precarious financial position, it is likely that the City would need to find some source of capital if such an up-front payment were necessary.

Finally, we have also analyzed what constraints DWSD would need to impose on its contract with the City of Flint in order to be a positive financial option. It would appear that if the capacity costs to Flint were to be fixed at the FY13 level and if annual operating cost increases were capped at 2.25%, then the cost to the City of Flint could be less than KWA.

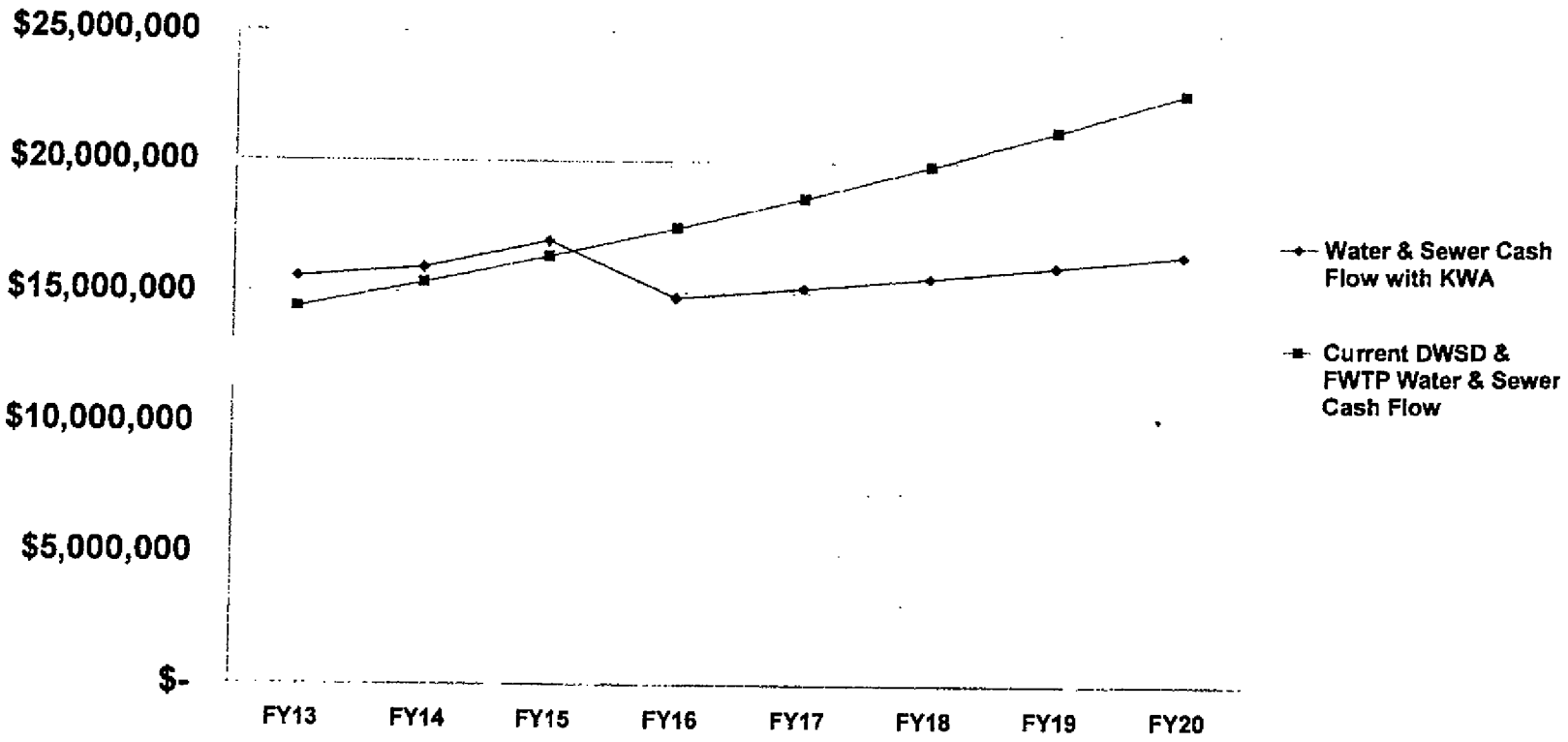
Attached are the three projections summarized above. First is the "Original Projection" utilizing the KWA Study. Second is the "Worse Case Projection" with cost increases and construction delays. Third is the reduced DWSD costs associated with fixed capacity costs and capped increases in operational costs.

Please contact me if you have any questions.

Gerald Ambrose
Director of Finance

GA:js
Attachments

Original Projection - Summary Comparison: KWA vs DWSD



FINAL 10/31/2012

ORIGINAL PROJECTION
SUMMARY COMPARISON: KWA V DWSD

Water and Sewer Cash Flow with KWA

	Year 1 FY13	Year 2 FY14	Year 3 FY15	Year 4 FY16	Year 5 FY17	Year 6 FY18	Year 7 FY19	Year 8 FY20
Current DWSD & FWTP Costs	$ 14,413,858	$ 15,355,135	$ 16,365,534	$ -	$ -	$ -	$ -	$ -
KWA Entry Fee	$ 1,162,800	$ 581,400	$ 581,400	$ -	$ -	$ -	$ -	$ -
KWA Debt Service	$ -	$ -	$ -	$ 6,593,155	$ 6,593,155	$ 6,593,155	$ 6,593,155	$ 6,593,155
FWTP Debt Service	$ -	$ -	$ -	$ 572,781	$ 572,781	$ 572,781	$ 572,781	$ 572,781
KWA operations	$ -	$ -	$ -	$ 878,869	$ 922,812	$ 968,953	$ 1,017,401	$ 1,068,271
FWTP operations w KWA	$ -	$ -	$ -	$ 6,843,344	$ 7,185,511	$ 7,544,787	$ 7,922,026	$ 8,318,128
Total Costs	$ 15,576,658	$ 15,936,535	$ 16,946,934	$ 14,888,149	$ 15,274,260	$ 15,679,676	$ 16,105,363	$ 16,552,334

Water and Sewer Cash Flow with DWSD

	Year 1 FY13	Year 2 FY14	Year 3 FY15	Year 4 FY16	Year 5 FY17	Year 6 FY18	Year 7 FY19	Year 8 FY20
Current DWSD & FWTP Costs	$ 14,413,858	$ 15,355,135	$ 16,365,534	$ 17,450,717	$ 18,616,851	$ 19,870,650	$ 21,219,435	$ 22,671,185

Cash Flow Difference: KWA and DWSD

	Year 1 FY13	Year 2 FY14	Year 3 FY15	Year 4 FY16	Year 5 FY17	Year 6 FY18	Year 7 FY19	Year 8 FY20
Annual Cost: DWSD - KWA	$ (1,162,800)	$ (581,400)	$ (581,400)	$ 2,562,568	$ 3,342,591	$ 4,190,974	$ 5,114,072	$ 6,118,851
Cumulative Gain with KWA	$ (1,162,800)	$ (1,744,200)	$ (2,325,600)	$ 236,968	$ 3,579,559	$ 7,770,533	$ 12,884,605	$ 19,003,456

(1) This projection assumes that KWA begins delivery of water to Flint starting in July, 2016. Any interest on the bonds will be capitalized until that period. The City will be obligated to begin paying its $2,325,600 entry fee in FY13 - 2 payments of $581,400 in FY13, 1 payment in FY14 and 1 payment in FY15.

(2) The cost of the KWA option is projected to be $2,562,568 or 15% LESS than DWSD in the first year of operation (Year 4). This gain offsets the upfront costs of $2,325,600 by $236,968.

(3) The cost of the KWA option is projected to be $6.1 million or 27% LESS than DWSD in the 5th year of operation (Year 8)

(4) The cumulative savings by the 8th year from the beginning of the project are projected to be $19 million.

Detail of Original Cost Projections

FINAL 10/31/2012

Cost Comparisons: Water Supply to City of Flint from DWSD and proposed KWA project

Cost of water to City of Flint (excluding Genesee) using continued service from DWSD

	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
Fixed Cost (1)	$ 4,411,680	$ 4,852,848	$ 5,338,133	$ 5,871,946	$ 6,459,141	$ 7,105,055	$ 7,815,560	$ 8,597,116
Escalator	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Commodity Cost (2)	$ 7,276,640	$ 7,640,472	$ 8,022,496	$ 8,423,620	$ 8,844,801	$ 9,287,041	$ 9,751,394	$ 10,238,963
Escalator	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
Flint WTP Operating Cost (3)	$ 2,725,538	$ 2,861,815	$ 3,004,906	$ 3,155,151	$ 3,312,908	$ 3,478,554	$ 3,652,482	$ 3,835,106
Escalator	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
TOTAL	$ 14,413,858	$ 15,355,135	$ 16,365,534	$ 17,450,717	$ 18,616,851	$ 19,870,650	$ 21,219,435	$ 22,671,185

(1) Per FY13 Budget and DWSD Contract, fixed charge from DWSD for FY13 is $707,000 per month or $8.5 million total. Flint's cost is 52% or $4.4 million total.

(2) Per FY13 Budget and DWSD Contract, and based on 12 million gallons per day (mgd), cost is $7 3 million, based on $12.46/unit ($12.46x1600unitsx365).

(3) Per FY13 Budget, annual cost of WTP is $4.1 million. Genesee County pays $1,386,000 for emergency back up service.

Cost of water to City of Flint using proposed KWA project for water supply to Flint WTP

	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
KWA Entry Costs (1)	$ 1,162,800	$ 581,400	$ 581,400		$ -	$ -	$ -	$ -
Fixed KWA Construction Cost (2)				$ 6,593,155	$ 6,593,155	$ 6,593,155	$ 6,593,155	$ 6,593,155
Escalator				1.00	1.00	1.00	1.00	
Fixed Flint WTP Construction Cost (3)				$ 572,781	$ 572,781	$ 572,781	$ 572,781	$ 572,781
Escalator				1.00	1.00	1.00	1.00	
Flint WTP Operating Cost (4)	$ 5,911,538	$ 6,207,115	$ 6,517,471	$ 6,843,344	$ 7,185,511	$ 7,544,787	$ 7,922,026	$ 8,318,128
Escalator	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
KWA Commodity Charge (5)	$ 759,200	$ 797,160	$ 837,018	$ 878,869	$ 922,812	$ 968,953	$ 1,017,401	$ 1,068,271
Escalator	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
TOTAL	KWA NOT AVAILABLE			$ 14,888,149	$ 15,274,260	$ 15,679,676	$ 16,105,363	$ 16,552,334

(1) The City will, upon joining, be required to pay an initial fee of $32,300 per MGD plus the same amount for each year until bonding for the project is obtained. At 18MGD, the City's cost is $581,400 annually. Since it is projected that fee will be assessed for 3 years, the City's upfront cost is projected at $2,325,600.

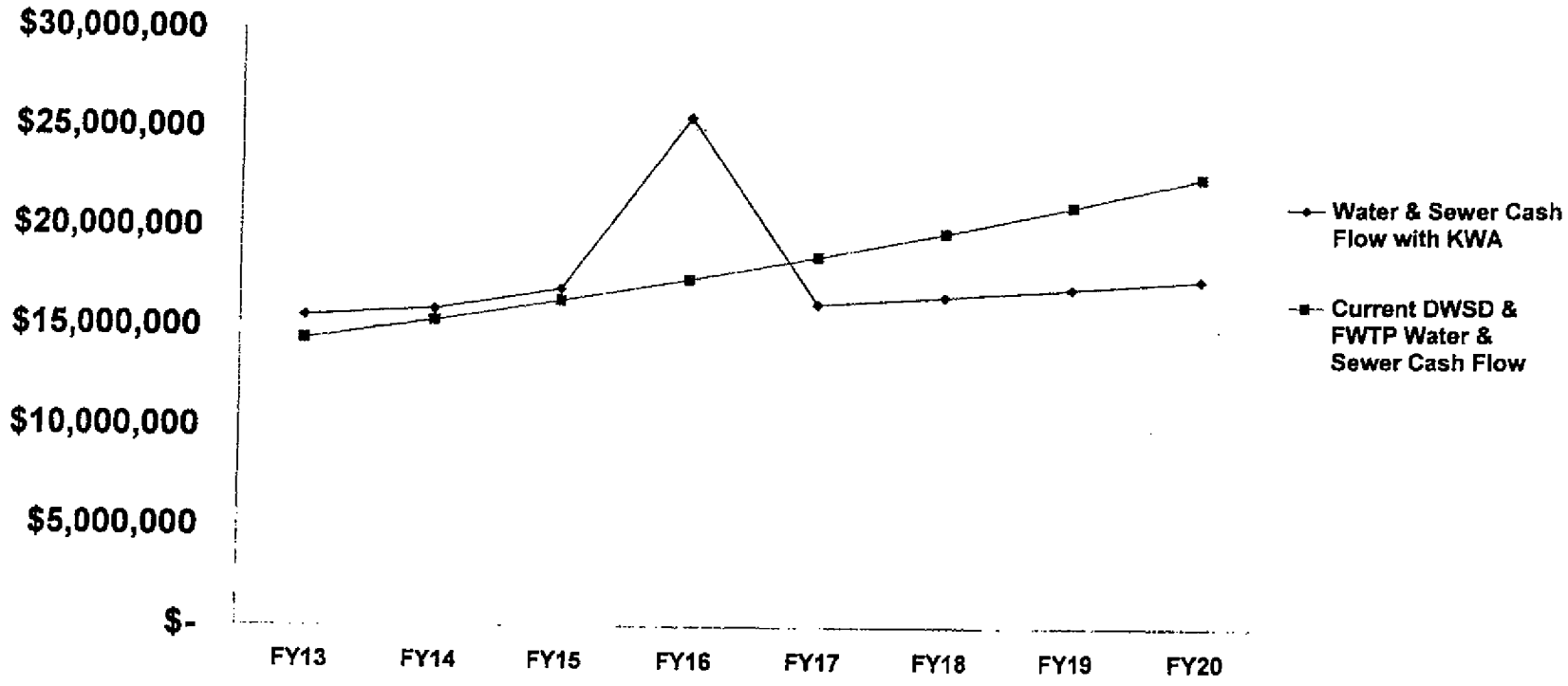
(2) Per KWA proposal, project cost is $272 million. City's fixed cost would be 30% of debt service, based on capacity design of 60mgd, of which 18MGD is for Flint. Debt service is based on 5% interest rate @ 25 years; 5% added to principal for capitalized interest for FY13, FY14, and FY15. ($272,421,588 plus $13,621,078 for 3 years = $313,284,792)

(3) Per KWA proposal, the cost of upgrading the Flint is $7.1 million. City's fixed cost would be100% of debt service based on 5% interest rate @ 25 years), with 5% added to cover capitalized interest for FY13, FY14, and FY15. (total principal = $8.165 million)

(4) Per FY13 Budget annual cost of WTP is $4,111,538. $1.6 million for electricity and chemicals & 2 FTE's are added. 100% City cost. 100%

(5) Per KWA proposal, initial commodity charge would be based on $1.30/unit or 7,500 gallons. Charge is based on 12MGD.

Worst Case Scenario - Summary Comparison KWA vs DWSD (15% Cost Overrun; One year delay in Water Supply delivery)



FINAL 10/31/2012

WORSE CASE PROJECTION
SUMMARY COMPARISON: KWA V DWSD
(15% Cost Overrun; One year delay in Water Supply delivery)

Water and Sewer Cash Flow with KWA

	Year 1 FY13	Year 2 FY14	Year 3 FY15	Year 4 FY16	Year 5 FY17	Year 6 FY18	Year 7 FY19	Year 8 FY20
Current DWSD & FWTP Costs	$ 14,413,858	$ 15,355,135	$ 16,365,534	$ 17,450,717	$ -	$ -	$ -	$ -
KWA Entry Fee	$ 1,162,800	$ 581,400	$ 581,400	$ -	$ -	$ -	$ -	$ -
KWA Debt Service	$ -	$ -	$ -	$ 7,582,128	$ 7,582,128	$ 7,582,128	$ 7,582,128	$ 7,582,128
FWTP Debt Service	$ -	$ -	$ -	$ 658,698	$ 658,698	$ 658,698	$ 658,698	$ 658,698
KWA operations	$ -	$ -	$ -	$ -	$ 922,812	$ 968,953	$ 1,017,401	$ 1,068,271
FWTP operations w KWA	$ -	$ -	$ -	$ -	$ 7,185,511	$ 7,544,787	$ 7,922,026	$ 8,318,128
Total Costs	$ 15,576,658	$ 15,936,535	$ 16,946,934	$ 25,691,544	$ 16,349,150	$ 16,754,566	$ 17,180,253	$ 17,627,225

Water and Sewer Cash Flow with DWSD

	Year 1 FY13	Year 2 FY14	Year 3 FY15	Year 4 FY16	Year 5 FY17	Year 6 FY18	Year 7 FY19	Year 8 FY20
Current DWSD & FWTP Costs	$ 14,413,858	$ 15,355,135	$ 16,365,534	$ 17,450,717	$ 18,616,861	$ 19,870,660	$ 21,219,436	$ 22,671,185

Cash Flow Difference: KWA and DWSD

	Year 1 FY13	Year 2 FY14	Year 3 FY15	Year 4 FY16	Year 5 FY17	Year 6 FY18	Year 7 FY19	Year 8 FY20
Annual KWA - DWSD	$ (1,162,800)	$ (581,400)	$ (581,400)	$ (8,240,826)	$ 2,267,700	$ 3,116,094	$ 4,039,182	$ 5,043,960
Cumulative	$ (1,162,800)	$ (1,744,200)	$ (2,325,600)	$ (10,566,426)	$ (8,298,726)	$ (5,182,642)	$ (1,143,460)	$ 3,900,500

"Worse Case" scenario differs from Original in these respects:

(1) Delivery of water to Flint from KWA is delayed by one year and construction costs are 15% above the original projection. Consequently, the City is required to begin paying for debt service one year before KWA begins delivery of water. This is in addition to its obligation to pay its initial entry fee of $581,400 plus $581,400 annually for the first 3 years.

(2) Once KWA begins delivering water in year 5, the annual operating costs are less than DWSD by 12%. Considering $10.6 million in upfront costs in the first 4 years prior to KWA operation, the cumulative cost of KWA exceeds the cost of DWSD until year 8.

(3) Cumulative savings by Year 8 are projected to be $3.9 million, compared to $19 million in the original projection.

Detail of Worse Case Cost Projections

FINAL 10/31/2012

Worse Case Scenerio

Cost Comparisons: Water Supply to City of Flint from DWSD and proposed KWA project

Cost of water to City of Flint (excluding Genesee) using continued service from DWSD

	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
Fixed Cost (1)	$ 4,411,680	$ 4,852,848	$ 5,338,133	$ 5,871,946	$ 6,459,141	$ 7,105,055	$ 7,815,560	$ 8,597,116
Escalator	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Commodity Cost (2)	$ 7,276,640	$ 7,640,472	$ 8,022,496	$ 8,423,620	$ 8,844,801	$ 9,287,041	$ 9,751,394	$ 10,238,963
Escalator	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
Flint WTP Operating Cost (3)	$ 2,725,538	$ 2,861,815	$ 3,004,906	$ 3,155,151	$ 3,312,908	$ 3,478,554	$ 3,652,482	$ 3,835,106
Escalator	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
TOTAL	$ 14,413,858	$ 15,355,135	$ 16,365,534	$ 17,450,717	$ 18,616,851	$ 19,870,650	$ 21,219,436	$ 22,671,185

(1) Per FY13 Budget and DWSD Contract, fixed charge from DWSD for FY13 is $707,000 per month or $8.5 million total Flint's cost is 52% or $4.4 million total.

(2) Per FY13 Budget and DWSD Contract, and based on 12 million gallons per day (mgd), cost is $7.3 million, based on $12.46/unit ($12.46x1600unitsx365)

(3) Per FY13 Budget, annual cost of WTP is $4.1 million. Genesee County pays $1,386,000 for emergency back up service

Cost of water to City of Flint using proposed KWA project for water supply to Flint WTP

	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
KWA Entry Costs (1)	$ 1,162,800	$ 581,400	$ 581,400	$ -	$ -	$ -	$ -	$ -
Fixed KWA Construction Cost (2)				$ 7,582,128	$ 7,582,128	$ 7,582,128	$ 7,582,128	$ 7,582,126
Escalator						1.00	1.00	
Fixed Flint WTP Construction Cost (3)				$ 658,698	$ 658,698	$ 658,698	$ 658,698	$ 658,698
Escalator								
Flint WTP Operating Cost (4)	$ 5,911,538	$ 6,207,115	$ 6,517,471	$ 6,843,344	$ 7,185,511	$ 7,544,787	$ 7,922,026	$ 8,318,128
Escalator	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
KWA Commodity Charge (5)	$ 759,200	$ 797,160	$ 837,018	$ 878,869	$ 922,812	$ 968,953	$ 1,017,401	$ 1,068,271
Escalator	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
TOTAL	KWA NOT AVAILABLE				$ 16,349,150	$ 16,754,566	$ 17,180,263	$ 17,627,225

(1) The City will, upon joining, be required to pay a, initial fee of $32,300 per MGD plus the same amount for each year until bonding for the project is obtained. At 18MGD, the City's cost is $581,000, for a total of $2,325,600..

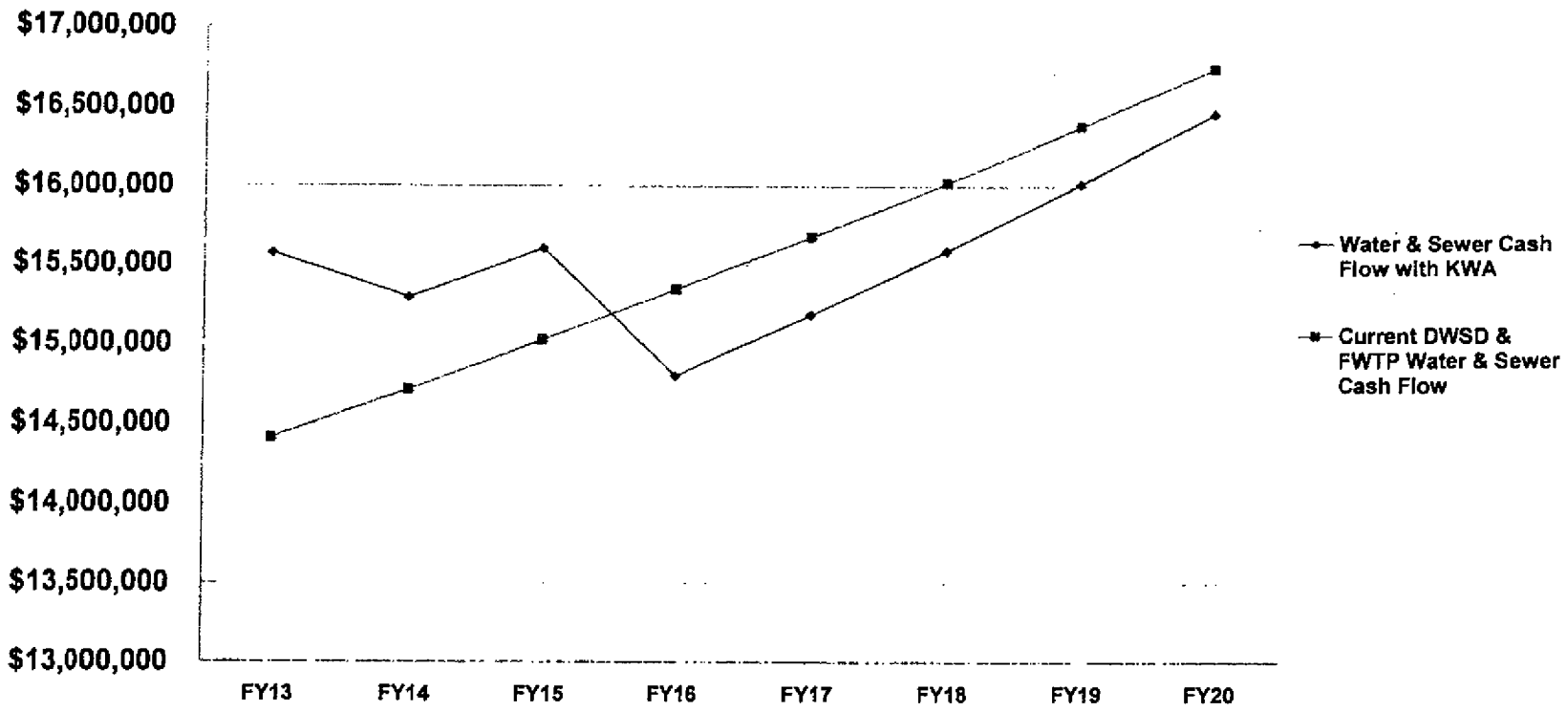
(2) Per KWA proposal, original project cost is $272 million. City's fixed cost would be 30% of debt service, based on capacity design of 60mgd, of which 18MGD is for Flint. Debt service is based on 5% interest rate @ 25 years; 5% added to principal for capitalized interest for FY13, FY14, and FY15. ($272,421,588 plus $13,621,078 for 3 years = $313,284,792). **The costs here are increased by 15%; debt service starts in FY16 but water is not available until FY17.**

(3) Per KWA proposal, the cost of upgrading the Flint is $7.1 million. City's fixed cost would be100% of debt service based on 5% interest rate @ 25 years), with 5% added to cover capitalized interest for FY13, FY14, and FY15. (total principal = $8.165 million). **Again, costs here are increased by 15%; debt service starts in FY16 but water is not available until FY17. Debt service is now on $9.4 million.**

(4) Per FY13 Budget annual cost of WTP is $4,111,538. $1.6 million for electricity and chemicals & 2 FTE's are added. 100% City cost.

(5) Per KWA proposal, initial commodity charge would be based on $1.30/unit or 7,500 gallons. Charge is based on 12MGD.

ALTERNATE PROJECTION - SUMMARY COMPARISON: KWA V DWSD WITH DWSD COSTS REDUCED (Fixed Costs held constant; Commodity Costs Increased by 2.25% Annually)



FINAL 10/31/2012

ALTERNATE PROJECTION
SUMMARY COMPARISON: KWA V DWSD WITH DWSD COSTS REDUCED
(FIXED COSTS HELD CONSTANT; COMMODITY COSTS INCREASED BY 2.25% ANNUALLY)

Water and Sewer Cash Flow with KWA

	Year 1 FY13	Year 2 FY14	Year 3 FY15	Year 4 FY16	Year 5 FY17	Year 6 FY18	Year 7 FY19	Year 8 FY20
Current DWSD & FWTP Costs	$ 14,413,858	$ 14,713,859	$ 15,024,358	$ -	$ -	$ -	$ -	$ -
KWA Entry Fee	$ 1,162,800	$ 581,400	$ 581,400	$ -	$ -	$ -	$ -	$ -
KWA Debt	$ -	$ -	$ -	$ 6,593,155	$ 6,593,155	$ 6,593,155	$ 6,593,155	$ 6,593,155
FWTP Debt	$ -	$ -	$ -	$ 572,781	$ 572,781	$ 572,781	$ 572,781	$ 572,781
KWA operations	$ -	$ -	$ -	$ 878,869	$ 922,812	$ 968,953	$ 1,017,401	$ 1,068,271
FWTP operations w KWA	$ -	$ -	$ -	$ 6,843,344	$ 7,185,511	$ 7,544,787	$ 7,922,026	$ 8,318,128
Total Costs	$ 15,576,658	$ 15,295,259	$ 15,605,758	$ 14,888,149	$ 15,274,260	$ 15,679,676	$16,105,363	$ 16,552,334

Water and Sewer Cash Flow with DWSD

	Year 1 FY13	Year 2 FY14	Year 3 FY15	Year 4 FY16	Year 5 FY17	Year 6 FY18	Year 7 FY19	Year 8 FY20
Current DWSD & FWTP Costs	$ 14,413,858	$ 14,713,859	$ 15,024,358	$ 15,345,778	$ 15,678,562	$ 16,023,172	$16,380,091	$ 16,749,823

Cash Flow Difference: KWA and DWSD

	Year 1 FY13	Year 2 FY14	Year 3 FY15	Year 4 FY16	Year 5 FY17	Year 6 FY18	Year 7 FY19	Year 8 FY20
Annual Cost: DWSD - KWA	$ (1,162,800)	$ (581,400)	$ (581,400)	$ 457,629	$ 404,302	$ 343,496	$ 274,728	$ 197,489
Cumulative Gain with KWA	$ (1,162,800)	$ (1,744,200)	$ (2,325,600)	$ (1,867,971)	$ (1,463,669)	$ (1,120,173)	$ (845,445)	$ (647,956)

(1) This projection assumes that DWSD fixed costs remain at 2013 levels and that operating costs increase by 2.25% annually

(2) KWA costs are as in the Original Projection.

(3) In this comparison, KWA costs are still less once operations begin (by 2.9%), and cumulative gain does not occur until after year 8. Over time, DWDS costs could be less with these limitations on cost increases.

Detail of Cost Projections

FINAL 10/31/2012

Cost Comparisons: Water Supply to City of Flint from DWSD and proposed KWA project
(FIXED COSTS HELD CONSTANT; COMMODITY COSTS INCREASED BY 2.25% ANNUALLY)

Cost of water to City (excluding Genesee) using continued service from DWSD with modified escalator

	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
Fixed Cost (1)	$ 4,411,680	$ 4,411,680	$ 4,411,680	$ 4,411,680	$ 4,411,680	$ 4,411,680	$ 4,411,680	$ 4,411,680
Escalator	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Commodity Cost (2)	$ 7,276,640	$ 7,440,364	$ 7,607,773	$ 7,778,947	$ 7,953,974	$ 8,132,938	$ 8,315,929	$ 8,503,038
Escalator	1.0225	1.0225	1.0225	1.0225	1.0225	1.0225	1.0225	
Flint WTP Operating Cost (3)	$ 2,725,538	$ 2,861,815	$ 3,004,906	$ 3,155,151	$ 3,312,908	$ 3,478,554	$ 3,652,482	$ 3,835,106
Escalator	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
TOTAL	$ 14,413,858	$ 14,713,859	$ 15,024,358	$ 15,345,778	$ 15,678,562	$ 16,023,172	$16,380,091	$ 16,749,823

Cost of water to City of Flint using proposed KWA project for water supply to Flint WTP

	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
KWA Entry Costs (1)	$ 1,162,800	$ 581,400	$ 581,400		$ -	$ -	$ -	$ -
Fixed KWA Construction Cost (2)				$ 6,593,155	$ 6,593,155	$ 6,593,155	$ 6,593,155	$ 6,593,155
Escalator				1.00	1.00	1.00	1.00	
Fixed Flint WTP Construction Cost (3)				$ 572,781	$ 572,781	$ 572,781	$ 572,781	$ 572,781
Escalator				1.00	1.00	1.00	1.00	
Flint WTP Operating Cost (4)	$ 5,911,538	$ 6,207,115	$ 6,517,471	$ 6,843,344	$ 7,185,511	$ 7,544,787	$ 7,922,026	$ 8,318,128
Escalator	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
KWA Commodity Charge (5)	$ 759,200	$ 797,160	$ 837,018	$ 878,869	$ 922,812	$ 968,953	$ 1,017,401	$ 1,068,271
Escalator	1.05	1.05	1.05	1.05	1.05	1.05	1.05	
TOTAL	KWA NOT AVAILABLE			$ 14,888,149	$ 15,274,260	$ 15,679,676	$16,105,363	$ 16,552,334

Subject:	Meeting with Dr. Mona Hanna-Attisha and Flint Water
Location:	Governor's Conference Room, 2nd Floor Romney Building, 111 S. Capitol Ave., Lansing, MI 48933
Start:	Mon 12/14/2015 11:00 AM
End:	Mon 12/14/2015 12:00 PM
Recurrence:	(none)
Meeting Status:	Meeting organizer
Organizer:	Baird, Richard (GOV)
Required Attendees:	Laurence Reynolds; Matthew M. Davis; Chris Kolb; Ken Sikkema; Chris De Witt; 'Eric Rothstein'; Lyon, Nick (DHHS); Grijalva, Nancy (DHHS); mhanna1@hurleymc.com; Baird, Richard (GOV)

Good Morning,

This is to confirm the meeting with Rich Baird on **Monday, December 14** at **11:00 a.m.** in the Governor's Conference room, second floor Romney Building, 111 S. Capitol Ave. Lansing, MI 48933.

We are located at the George W. Romney Building, 111 S. Capitol Avenue, Lansing. The Romney Building is located directly across the street (Capitol Avenue) from the Capitol Building. There is some metered parking around the building. The closest parking facility is one block south at the corner of Capitol Avenue and Allegan Street (enter the parking facility from Capitol Avenue). https://www.parkme.com/lot/93032/tower-parking-ramp-lansing-mi

You will also want to have a picture I.D. handy for security in the Romney Building. Please let security know who you have a meeting with, they will call me and then send you up to the second floor.

Please let me know if you have any questions.

Thank you!

Virginia Manolakoudis
Executive Assistant for Richard Baird
Executive Office of Governor Rick Snyder
(517) 241-5621
ManolakoudisV@michigan.gov

From: Elizabeth Murphy <emurphy@cityofflint.com>
Sent: Tuesday, June 10, 2014 1:49 PM
To: Byrne, Randall (Treasury); Kapp, Gene (MSP); Muchmore, Dennis (GOV); Roberts, John (DTMB); West, Samantha (GOV); Dempkowski, Angela (Treasury); Baird, Richard (GOV); Larkin, Brian (GOV); Darnell Earley; Deasy, Thomas (MSP); Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Elizabeth Murphy; Etue, Kriste (MSP); Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); Lee, Nichole (MSP); McGowan, Emmitt (MSP); Sands, Thomas (MSP); Sipes, Stephen (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Flint Conference Call Agenda June 11, 2014
Attachments: Agenda for Treasury Conf. Call 061114.pdf; Audit firm recommendation.pdf

Please find attached the agenda and supporting document for the Wednesday, June 11th conference call.

--
Liz Murphy
Assistant to the Emergency Manager
City of Flint
810 237 2025

City of Flint Wednesday 9:00am Phone Conference Agenda

June 11, 2014

1)

2)

3)

4) Not Responsive

5) Not Responsive

6)

7) **Water Issues**
   a) River processed water continues to meet all DEQ standards.
   b) Pipe line sale – COF is waiting for corrected letter from Treasury approving sale.

8) Not Responsive

Attachment: Audit Information

PPI, **access code** PPI

Created on: 06/09/14

From: Darnell Earley <dearley@cityofflint.com>
Sent: Friday, October 31, 2014 11:50 AM
To: Baird, Richard (GOV)
Subject: Fwd: Thank You!

Good Morning Rich:

Just as an FYI, we had a very productive meeting. If you would like a briefing, please give me call.

Have a good weekend!

Darnell Earley, ICMA-CM, MPA
Emergency Manager
Flint, MI

---------- Forwarded message ----------
From: **Darnell Earley** <dearley@cityofflint.com>
Date: Fri, Oct 31, 2014 at 11:43 AM
Subject: Thank You!
To: wyantd@michigan.gov
Cc: Dayne Walling <dwalling@cityofflint.com>, "Workman, Wayne (TREASURY)" <workmanw@michigan.gov>, "Byrne, Randall (Treasury)" <ByrneR1@michigan.gov>, "Koryzno, Edward (Treasury)" <koryznoe@michigan.gov>, Kelly Rossman-McKinney <krossman@truscottrossman.com>, Elizabeth Murphy <emurphy@cityofflint.com>, "Hollins, Harvey (GOV)" <hollinsh@michigan.gov>

Good Morning Director Wyant:

I wanted to take just a moment to thank you and your team for travelling to Flint Wednesday to meet with me, the Mayor, and the Utilities Department staff.

Everyone on our end appreciated the opportunity to meet directly with you and your key staff at the DEQ. We all felt it was a very productive discussion of the many difficult issues facing the City of Flint not only during this transition, but as its own long-term, sustainable water supply and distribution system, leading towards full implementation of the KWA project. As you know Flint is slated to convert to the KWA water source well within the next 18 month timeline. Until that happens however, I think you would agree that we have an excellent opportunity here to send a good, positive message about how the City is managing its water services, and working very closely with your office in the process.

As we discussed, an initial media hit from your office fairly soon would also help us build public confidence through stronger communication on how we are responding to the challenges we encounter, your department's support of our efforts to resolve them, and the resultant potability of the current water source. If there are other next steps you need from us regarding such a media release, please don't hesitate to contact me.

We look forward to our continued partnership in addressing these and other matters critical to environmental quality in the City of Flint and the State of Michigan!

Sincerely,

Darnell Earley, ICMA-CM, MPA
Emergency Manager
Flint, MI

From: Darnell Earley <dearley@cityofflint.com>
Sent: Friday, October 31, 2014 11:58 AM
To: Baird, Richard (GOV)
Subject: Re: Thank You!

Thanks...I'll look forward to it!

Darnell Earley, ICMA-CM, MPA
Emergency Manager
Flint, MI

On Fri, Oct 31, 2014 at 11:51 AM, Baird, Richard (GOV) <bairdr@michigan.gov> wrote:
Very good! Lets get together after the election. Great work!

Sent from my Verizon Wireless 4G LTE DROID

Darnell Earley <dearley@cityofflint.com> wrote:

Good Morning Rich:

Just as an FYI, we had a very productive meeting. If you would like a briefing, please give me call.

Have a good weekend!
[http://cityofflint.com/images/Signature.jpg][X]
Darnell Earley, ICMA-CM, MPA
Emergency Manager
Flint, MI

---------- Forwarded message ----------
From: Darnell Earley <dearley@cityofflint.com<mailto:dearley@cityofflint.com>>
Date: Fri, Oct 31, 2014 at 11:43 AM
Subject: Thank You!
To: wyantd@michigan.gov<mailto:wyantd@michigan.gov>
Cc: Dayne Walling <dwalling@cityofflint.com<mailto:dwalling@cityofflint.com>>, "Workman, Wayne (TREASURY)" <workmanw@michigan.gov<mailto:workmanw@michigan.gov>>, "Byrne, Randall (Treasury)" <ByrneR1@michigan.gov<mailto:ByrneR1@michigan.gov>>, "Koryzno, Edward (Treasury)" <koryznoe@michigan.gov<mailto:koryznoe@michigan.gov>>, Kelly Rossman-McKinney <krossman@truscottrossman.com<mailto:krossman@truscottrossman.com>>, Elizabeth Murphy <emurphy@cityofflint.com<mailto:emurphy@cityofflint.com>>, "Hollins, Harvey (GOV)" <hollinsh@michigan.gov<mailto:hollinsh@michigan.gov>>

Good Morning Director Wyant:

I wanted to take just a moment to thank you and your team for travelling to Flint Wednesday to meet with me, the Mayor, and the Utilities Department staff.

Everyone on our end appreciated the opportunity to meet directly with you and your key staff at the DEQ. We all felt it was a very productive discussion of the many difficult issues facing the City of Flint not only during this transition, but as its own long-term, sustainable water supply and distribution system, leading towards full implementation of the KWA project. As you know Flint is slated to convert to the KWA water source well within the next 18 month timeline. Until that happens however, I think you would agree that we have an excellent opportunity here to send a good, positive message about how the City is managing its water services, and working very closely with your office in the process.

As we discussed, an initial media hit from your office fairly soon would also help us build public confidence through stronger communication on how we are responding to the challenges we encounter, your department's support of our efforts to resolve them, and the resultant potability of the current water source. If there are other next steps you need from us regarding such a media release, please don't hesitate to contact me.

We look forward to our continued partnership in addressing these and other matters critical to environmental quality in the City of Flint and the State of Michigan!

Sincerely,
[http://cityofflint.com/images/Signature.jpg][X]
Darnell Earley, ICMA-CM, MPA
Emergency Manager
Flint, MI

From: Daddow, Robert <daddowr@oakgov.com>
Sent: Friday, February 20, 2015 3:50 PM
To: Baird, Richard (GOV); Saxton, Thomas (Treasury)
Subject: FW: Response to City of Flint Council Member Freeman
Attachments: Flint.Councilmember Joshua M Freeman.Feb 19 2015.pdf

FYI -- just received the attached letter on Flint. RJD

From: Rechanda Willis [mailto:willis@dwsd.org]
Sent: Friday, February 20, 2015 3:23 PM
To: James Fausone; Robert Daddow
Subject: Response to City of Flint Council Member Freeman

Attached is copy of the response to City of Flint Council Member Joshua Freeman's February 3, 2015 letter.

Thank you

Rechanda L. Willis
Assistant to the Deputy Director/Chief Customer Service Officer
Detroit Water and Sewerage Department
735 Randolph Street - Room 506
Detroit, Michigan 48226
(313) 224-4785 (office)
(313) 224-6067 (fax)
willis@dwsd.org

City of Detroit
Water and Sewerage Department
Office of the Director

735 Randolph Street
Detroit, Michigan 48226-2830
www.detroitmi.gov

February 19, 2015

The Honorable Joshua M. Freeman, Councilmember
City of Flint, Michigan
1101 S. Saginaw Street
Flint, Michigan 48502

Dear Councilman Freeman:

Regarding: Your letter of February 3, 2015

Thank you for your letter of February 3, 2015 in which you seek additional information related to the Detroit Water and Sewerage Department's ("DWSD") offer to resume supplying drinking water to the City of Flint. Specifically, you have asked several follow-up questions related to the nature of the long-term arrangement I referenced within my letter, as well as some technical questions regarding rates and the method for reconnection in light of changes Flint has made to its system in the interim timeframe.

I will attempt to provide as much clarity as possible through this response. For starters, the rate quoted in my January 12, 2015 letter is related to the current rate year ending June 30, 2015. As new rates are adopted each year, the relative methodology as is applied to current DWSD wholesale customers would also be applied to Flint (and Genesee County) and will impact your rates, accordingly. In other words, rates will change in accordance with DWSD revenue requirements each year that Flint (and Genesee County) receives water from DWSD. That is why my prior letter only quoted a specific rate through June 30, 2015. Our Board of Water Commissioners has not yet adopted rates for the 2015-2016 rate year.

Secondly, you have asked if the rates described in the January 12, 2015 letter are exclusive to Flint or if they also would cover the Genesee County Drain Commissioner ("GCDC"). I certainly envision that the rates associated with Flint would also be available to the GCDC, as the two entities have utilized service pursuant to a single contractual arrangement in the past. To that end, DWSD is open to the possibility for a contract to be entered into by either Flint or GCDC on behalf of both customers, depending on the intricacies of the connections that you referenced with respect to Flint's recent sale of pipeline to GCDC. As noted previously, entering into a contract is not required to reinstitute service to Flint during the current emergency situation, in anticipation of further discussions toward a future service relationship.

Additionally, you have asked about short-term as compared to a long-term contractual relationship in light of Flint and GCDC's combined intent to utilize KWA for long-term service as early as 2016. DWSD operates pursuant to long-term contracts with its customers. As you may be aware, our model contracts are for a period of thirty years.

However, in light of the work already done by Flint and GCDC in preparation to receive raw water from KWA, DWSD is open to exploring a long-term contractual arrangement in which DWSD provides full service to Flint (and GCDC) until such time as KWA is operational, and then a back-up service arrangement, thereafter. The specific terms of that back-up service arrangement would require some further negotiation, but I would assume that such an arrangement would be mutually beneficial in light of the concerns with utilization of the Flint River as a primary or secondary water source.

You have also asked a technical question about the steps necessary in order for Flint to convert back to DWSD for receipt of water service. While I agree that it is not as simple as flipping a switch, I do not believe that this conversion would be a significant obstacle for Flint and GCDC to overcome. In fact, there should not be any actions required of DWSD in order to resume service, since we are currently providing full service to GCDC through the GN-01 meter (formerly the FL-01 meter).

Finally, you have asked if the anticipated assumption of DWSD's wholesale operations by the Great Lakes Water Authority ("GLWA") will impact the proposal that has been made. In short, the answer to your question is that it would not, depending on the timing of the signing of a new contract between the parties. Under the terms of the GLWA Memorandum of Understanding and Articles of Incorporation, it is envisioned that the GLWA would assume all wholesale contracts of DWSD. Therefore, the GLWA would be bound by the contractual terms that are agreed upon between DWSD and the City of Flint and/or GCDC. Nevertheless, as the GLWA Board has now been seated and has a regular schedule of meetings, I would certainly anticipate advising the GLWA Board of the terms of any proposed contract between the parties, and to seek their input or listen to any concerns or suggestions that they might have. In any event, resumption of service in the short term to address Flint's current needs, remains available immediately under existing published rates, and requires no action by either Board.

I look forward to the continued discussions, and hope that there is a viable solution that can be reached for the benefit of all parties.

Sincerely yours,

Sue F. McCormick
Director, Detroit Water and Sewerage Department
Interim CEO, Great Lakes Water Authority

Cc: The Honorable Dayne Walling, Mayor, City of Flint
Gerald Ambrose, Emergency Manager, City of Flint
Flint City Council
The Honorable Michael E. Duggan, Mayor, City of Detroit
Mr. Jim Fausone, Chairman, Board of Water Commissioners
Mr. Robert Daddow, Chairman, Great Lakes Water Authority

From: Workman, Wayne (TREASURY)
Sent: Thursday, February 26, 2015 8:31 AM
To: Hollins, Harvey (GOV); Muchmore, Dennis (GOV); Baird, Richard (GOV)
Cc: Koryzno, Edward (Treasury); Saxton, Thomas (Treasury)
Subject: Flint Water

Harvey, Wanted to let you know I did get in touch with Jerry Ambrose last night and the City will be working on a side by side comparison of KWA vs DWSD and a simple explanation of the current finances of the water system. Hope the attachments Ed Koryzno sent again are helpful. One was the list of members in the new Water Advisory Committee and the second was the interim report from Veiola. Wayne

From: Darnell Earley <darnell.earley@detroitk12.org>
Sent: Friday, September 25, 2015 5:55 PM
To: Saxton, Thomas (Treasury); Baird, Richard (GOV)
Subject: Fwd: Flint Water Statement-FOR REVIEW

FYI

Sent from my iPhone

Begin forwarded message:

> **From:** Michelle Zdrodowski <michelle.zdrodowski@detroitk12.org>
> **Date:** September 25, 2015 at 5:33:31 PM EDT
> **To:** Darnell Earley <darnell.earley@detroitk12.org>
> **Subject: Re: Flint Water Statement-FOR REVIEW**
>
> Received approval from Gov's Office PR. Sending now.
>
> **Michelle A. Zdrodowski**
>
> Executive Director of Communications
>
> Detroit Public Schools
>
> 3011 W. Grand Boulevard, 14th Floor
>
> Detroit, MI 48202
>
> 313.873.3238, office
>
> **PPI** mobile

From: Michelle Zdrodowski
Sent: Friday, September 25, 2015 5:16 PM
To: Darnell Earley
Subject: Re: Flint Water Statement-FOR REVIEW

OK, with your edit. I will send to Sara and Terry

The decision for Flint to join the Karegnondi Water Authority and to leave the Detroit Water and Sewerage System was made under the authority of previous Flint Emergency Managers prior to my appointment in October 2013. And, while the deal to sell the pipeline had been in process as I assumed my position, it was finalized after thorough review and with the health and well-being of all citizens -- from small children to senior citizens and everyone in between -- taken into consideration. An even bigger concern that we must all be paying attention to is the aging infrastructure and water distribution systems in all of our urban communities -- many of which are more than 100 years old. Where the focus should be placed moving forward is not on what we do in the interim between now and when the new system is complete, but what is done in the long-term to replace the crumbling water distribution system that exits throughout Flint and Genesee County. Iam confident that the city of Flint is following the standards of the State of Michigan's Department of Environmental Quality for safe water compliance, as it should.

Michelle A. Zdrodowski

Executive Director of Communications

Detroit Public Schools

3011 W. Grand Boulevard, 14th Floor

Detroit, MI 48202

313.873.3238, office

PPI, mobile

From: Darnell Earley
Sent: Friday, September 25, 2015 5:12 PM
To: Michelle Zdrodowski
Subject: Re: Flint Water Statement-FOR REVIEW

Add as the last sentence :

I'm confident that the city of Flint is following the standards of the States department of environmental quality for safe water compliance, as it should.

Work that in then send it to Sara and Terry for their blessing .

Sent from my iPhone

On Sep 25, 2015, at 4:56 PM, Michelle Zdrodowski <michelle.zdrodowski@detroitk12.org> wrote:

> Mr. Earley,
>
> Draft statement for the Freep, based on our discussion, for your review:
>
> The decision for Flint to join the Karegnondi Water Authority and to leave the Detroit Water and Sewerage System was made under the authority of previous Flint Emergency Managers prior to my appointment in October 2013. And, while the deal to sell the pipeline had been in process as I assumed my position, it was finalized after thorough review and with the health and well-being of all citizens -- from small children to senior citizens and everyone in between -- taken into consideration. An even bigger concern that we must all be paying attention to is the aging infrastructure and water distribution systems in all of our urban communities -- many of which are more than 100 years old. Where the focus should be placed moving forward is not on what we do in the interim between now and when the new system is complete, but what is done in the long-term to replace the crumbling water distribution system that exits throughout Flint and Genesee County.
>
> Michelle

Michelle A. Zdrodowski

Executive Director of Communications

Detroit Public Schools

3011 W. Grand Boulevard, 14th Floor

Detroit, MI 48202

313.873.3238, office

PPI, mobile

From: Murray, David (GOV)
Sent: Wednesday, September 30, 2015 9:35 AM
To: Baird, Richard (GOV)
Subject: Flint water background information
Attachments: Flint water FAQs (00000004).pdf; Sharable Flint Lead TP 092415 (00000002).docx

Hi Rich,

These are two documents that I think are helpful addressing the questions about lead and Flint water overall, prepared by DEQ and DHHS. These were intended for internal use, so please ask our partners to not share them beyond the people on their teams making the decisions.

Please let me know if you need anything else.

Dave

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

Frequently Asked Questions:
Water Lead Levels in the City of Flint
September 2015

How can lead get into drinking water?
Lead detections in Flint drinking water exist at the home level. Sampling at the Flint Water Treatment Plant has shown no lead in its treated water. However, this contaminant leaches into water from a home's lead service lines, lead solder, and leaded plumbing materials including fixtures, faucets, and fittings.

Does the city meet federal drinking water standards for lead and copper?
Yes, the city is meeting state and federal guidelines for lead and copper.

The City of Flint has regularly monitored for lead and copper since federal law began requiring it in 1991.

When the City changed water sources in May 2014, state and federal law required the city to sample for lead and copper for a full year to determine how the water may be interacting with residential lead plumbing to increase lead levels. While the city's results show residential lead levels below the federal threshold for immediate response activities, Flint is moving quickly to optimize corrosion control measures in its water system.

Some individual homes showed high numbers for lead. Isn't that a concern?
For the homeowner, yes it is. There is no "safe" level for lead, and while the leading cause of lead poisoning around the country is lead paint, any source of lead ingestion is worthy of concern.

But the State and federal guidelines for lead and copper acknowledge an important reality: Any home that has a lead service connection or lead plumbing will impart some varying amount of lead into the home's water. The only way to eliminate lead in a home water system is to remove lead plumbing or replace lead service connections to the city system.

The lead and copper rule requires the local operator to sample dozens, sometimes hundreds of homes in the service area to get a general sense of how the water supply is interacting with lead plumbing and service connections. The tests are done specifically at homes with lead service connections. Individual results vary and all participants are

Are there other ways the city monitors for lead exposure?
The County Health Department, overseen statewide by the Michigan Department of Health and Human Services, regularly monitors blood levels in children throughout Michigan communities. The leading cause of lead poisoning is exposure to lead paint.

Blood lead level testing results for the 12-month period just after the City of Flint changed its water source (May 2014 – April 2015) showed no significant change in the pattern of blood lead levels in Flint, compared to the previous three years. This data suggests the recent change in water source by the City of Flint has not contributed to an increase in lead exposure throughout the community.

How does the state decide if the water is creating a lead problem?
Compliance with the federal lead rule is based on a 90th percentile calculation. If more than 10 percent of samples report lead above the federal action level of **15 parts per billion**, a water supply has an "action level exceedance." An exceedance is not a violation. It triggers other requirements which could include public notification, additional water quality sampling, and possibly further treatment.

While some of Flint's individual samples exceeded the 15 parts-per-billion lead action level, compliance is based on **the 90th percentile of samples**. The City of Flint's 90th percentile level has ranged between 0 parts per billion in 2008 and 2011, and 15 parts per billion in 1992, but never exceeded the action level.

The two most recent sampling periods, in 2014 and 2015, were 6 parts per billion and 11 parts per billion, respectively.

Did the city use <u>every</u> sample they got back?
Sampling requirements for lead and copper are designed to target the most common pathways to lead ingestion in homes with the least protection. The sample must be collected from a commonly used kitchen or bathroom tap, and in accordance with the provided sampling instructions. Homes that employ filtration or additional treatment cannot be included. Samples must also be collected within the established monitoring period.

I have a lead service connection or lead plumbing. What should I do?
Replacement is the only way to eliminate lead exposure. However, here are some interim steps homeowners can take to reduce it:

Flush pipes before drinking, and only use cold water for consumption.

The more time water has been sitting in your home's pipes, the more lead it may contain. When water in a particular faucet has not been used for six hours or longer, "flush" cold-water pipes by running the water until it becomes as cold as it will get. This could take five to 30 seconds if there has been recent water use elsewhere in the home, such as showering or flushing toilets. Otherwise, it could take two minutes or longer.

Use only water from the cold-water tap for drinking, cooking, and especially for making baby formula. Hot water is likely to contain higher levels of lead.

Who is responsible for replacement of leaded materials?

Replacement of service pipes on private property and any leaded plumbing materials within the home is a **homeowner's responsibility**. The City of Flint owns the service pipe from the water main to the curb stop valve, and that is **the City's responsibility**. This valve is normally located two feet in from the street curb. From there to the house is private property and the responsibility of the homeowner.

Why doesn't the city at least replace its portion of lead service lines?

Partial lead service line replacement has been shown to mobilize more lead and make the situation worse. Only full lead service line replacement has been demonstrated effective in achieving long-term reductions in drinking water lead levels.

What is the City's timeline for installation of corrosion control treatment?

The federal government allows the steps to complete the installation of optimal corrosion control treatment and follow-up monitoring to take up to five years.

However, the City of Flint has committed to completing installation of Optimized Corrosion Control Treatment in **less than six months**.

What will happen when Flint joins the Karegnondi Water Authority next year?

The City has committed to having Optimized Corrosion Control Treatment in place prior to its connection with the Karegnondi Water Authority (KWA). The water provided by KWA will come from a new source, Lake Huron. The city will continue its lead and copper sampling every six months. Additionally, the city's water treatment plant will continue to operate with uninterrupted Optimized Corrosion Control Treatment.

How long would it take to replace lead service lines throughout Flint?

The city has about 32,900 service connections in total. **More than 15,000** of these connections are considered lead service lines. Even if many crews were contracted, it would likely take up to 15 years to complete this work.

What would it cost to replace the lead service line at my house?

Average costs to replace a lead service line at an individual home range from $2,000 to $8,000. Costs vary depending on the length and size of service line that is needed, as well as the ground cover and soil conditions encountered.

With more than 15,000 lead service lines at an estimated average cost of $4,000 for each replacement, total cost could **be $60 million or more**.

Blood Lead Levels in Flint background information
September 24, 2015

- Promoting the health of our residents is a statewide priority – a priority that includes ensuring clean, safe drinking water for all residents and especially children.
- The results of the Hurley Children's Hospital are under review by the Michigan Department of Health and Human Services.
- The analysis that Hurley conducted is different from the way MDHHS has analyzed data regarding blood lead levels in Flint.
- MDHHS is looking to see if we can replicate the results of the Hurley study to see how they achieved their results.

MDHHS Blood Lead Testing Results in Flint

- MDDHS data shows a comprehensive look at the data since 2010, years before the change in Flint's water source occurred in April 2014.
- Each year shows a seasonal increase in childhood lead poisoning in the summer months, the highest seasonal increase of which occurred in 2010.
- If elevated blood lead levels were being driven by the change in water, we would expect to see the elevated levels remain high after the change in water source, rather than follow the seasonal pattern as they did by decreasing in the fall months.
- All data included in the MDHHS analysis were reported by laboratories directly to MDHHS, in accordance with State Law.

Differences in Analysis

- MDHHS data provides a much more robust picture of the entire blood lead levels for the Flint area, and specifically, accounts for data over the full course of the past five years.
- Looking at the past five years as a whole provides a much more accurate look at the seasonal trends of lead in the area.
- Seasonal exposure is higher in the summer for a variety of reasons including children playing outside in the soil, and when windows are open and lead paint is more likely to be in the air. This seasonal increase would be unrelated to the water system.
- Our data includes children from the entire city, including all medical facilities, rather than just Hurley, has a larger age group of children, and includes a much larger sample size.
- The MDHHS analysis looks specifically at the first elevated blood lead level for each child, which provides an accurate picture of when first exposure occurred.
- The Hurley data includes a smaller sample size, much more limited time period (January-September of 2013 and 2015 only), and a smaller age group of children.

WIC Children

- In homes with infants on WIC, if the household has documentation from an official source of unsanitary water supply issues, that family may be eligible to receive ready-to-feed formula. Families should contact WIC to see if they are eligible.
- Each household would have to be looked at on an individual basis.
- WIC cannot cover bottled water.

From: Brown, Frank <[redacted]>
Sent: Wednesday, September 30, 2015 11:24 AM
To: Baird, Richard (GOV)
Subject: Re: Flint water background information
Attachments: image001.jpg; image001.jpg

Not Responsive

On Sep 30, 2015, at 3:34 PM, Baird, Richard (GOV) <bairdr@michigan.gov<mailto:bairdr@michigan.gov>> wrote:

Frank:

We have a situation in Flint, Michigan that is beginning to get national attention and could be an opportunity for Home Depot. 18 months ago, Flint switched its water supply from Detroit Water (the distance and pumping costs of going uphill made it quite expensive) to the Flint River as a temporary answer, until they could finish the construction to get their water from Lake Huron (Karagondi Water System). The corrosive attributes of the River water have exacerbated the lead deposit leaching into homeowner pipes and there is concern around lead poisoning, especially for infants.

The corporate community is rallying to address the problem. Meijer donated 1500 water filters to low income residents and GM is about to announce a donation of between 5,000 and 10,000 filters. I do not yet know where GM is getting the filters from, but I was thinking that Home Depot might want to join the effort with a donation, supply chain discounting assistance, or some combination of activity that could help Flint residents. Harvey Hollins is our point person for this effort, since he is the Director of Urban Initiatives for Governor Snyder. I have copied him here.

If you could get this into the hands of the right people and see if there is interest in speaking with Harvey, I would be very appreciative. Thanks and take care.

Regards,

Rich

From: Murray, David (GOV)
Sent: Wednesday, September 30, 2015 9:35 AM
To: Baird, Richard (GOV)
Subject: Flint water background information

Hi Rich,

These are two documents that I think are helpful addressing the questions about lead and Flint water overall, prepared by DEQ and DHHS. These were intended for internal use, so please ask our partners to not share them beyond the people on their teams making the decisions.

Please let me know if you need anything else.

Dave

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov<mailto:MurrayD1@michigan.gov>
517-335-6397, office
PPI ; mobile
Twitter:@michigandmurray

[Emblem]

<Flint water FAQs (00000004).pdf>
<Sharable Flint Lead TP 092415 (00000002).docx>

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From: Muchmore, Dennis (GOV)
Sent: Friday, October 02, 2015 10:11 AM
To: Saxton, Thomas (Treasury)
Cc: Khouri, Nick (TREASURY); Workman, Wayne (TREASURY); Stanton, Terry A. (Treasury)
Subject: Re: follow up

Not Responsive

On Oct 1, 2015, at 8:25 PM, Saxton, Thomas (Treasury) <SaxtonT@michigan.gov> wrote:

Dennis - in response to your earlier email; Wayne's guys came up with a ballpark estimate for reconnecting to DWSD. Let me emphasize 'ballpark'. They used your assumptions & they talked to Natasha H. after 5:00. Bottom line... the estimated cost is approx $10.5mm to reconnect until June '16.

These numbers on their surface seem much improved over previous DWSD $offers. [Is Daddow in the loop on this ?] We need to give some more thought as to whether this is all inclusive. e.g., there might be some costs from turning down operations at the plant

I am being told this can happen in a relatively short time i.e., less than a week. Which seems aggressive. Obviously that does not mean the lead concerns nor discolored water, etc goes away in a week. The pipe section they sold to the county won't be an impediment to this deal.

There apparently are no 'upfront' costs we need to worry about. In theory, it seems like it can be paid over the 9-10 months (vs a lump sum). But I am not clear Dennis on those couple ideas/sources the Mayor & Senator mentioned i.e., at this point I am not sure where the $10.5mm comes from.

My guess is we will keep refining this estimate. Let us know if you need anything else. Again, "credit " Wayne's guys for pulling this together quickly.

From: Cline, Richard (Treasury)
Sent: Thursday, October 1, 2015 6:08 PM
To: Saxton, Thomas (Treasury); Koryzno, Edward (Treasury); Byrne, Randall (Treasury)
Subject: RE: follow up

City's usage is 14 MGD/Day

Timeline is 9 months until June 2016

Fixed Cost is $662,100 for 9 months or $5,958,900

Commodity Rate is $501,383/month

Total Monthly Cost is $1,163,483

Cost until June 2016 is $10,471,347

The City does not know the cost to move the water plant into stand-by mode. However, they have indicated that there might be some reduced costs as lower chemical costs will be incurred.

Eric Cline | Department Manager | State of Michigan
Michigan Department of Treasury | Local Government Financial Services Division | Fiscal Responsibility Section
430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
Lansing Office (517) 335-2078 | Cell Phone PPI | Traverse City Office (231) 922-5228
E-mail cliner1@michigan.gov

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From: Saxton, Thomas (Treasury)
Sent: Thursday, October 01, 2015 6:01 PM
To: Cline, Richard (Treasury) <cliner1@michigan.gov>; Koryzno, Edward (Treasury) <KoryznoE@michigan.gov>; Byrne, Randall (Treasury) <ByrneR1@michigan.gov>
Subject: follow up
Importance: High

I am getting ready to leave… what have you learned ?

From: Daddow, Robert J <daddowr@oakgov.com>
Sent: Friday, October 02, 2015 3:41 PM
To: Baird, Richard (GOV)
Subject: RE: follow up

I think you are in the ballpark of what DWSD is thinking - just saw the reference in Gongwers on the State assisting. Where is Walling coming up with his repeated $2M / month number given the below?

What can I do to help?

My only concern is not being stuck with an unpaid bill at the end of the 9 month period. Just being the accountant that I am. RJD

-----Original Message-----
From: Baird, Richard (GOV) [mailto:bairdr@michigan.gov]
Sent: Friday, October 02, 2015 10:13 AM
To: Daddow, Robert J
Subject: Fwd: follow up

Not Responsive

From: "Muchmore, Dennis (GOV)" <muchmored@michigan.gov<mailto:muchmored@michigan.gov>>
Date: October 2, 2015 at 10:10:36 AM EDT
To: "Saxton, Thomas (Treasury)" <SaxtonT@michigan.gov<mailto:SaxtonT@michigan.gov>>
Cc: "Khouri, Nick (TREASURY)" <KhouriN@michigan.gov<mailto:KhouriN@michigan.gov>>, "Workman, Wayne (TREASURY)" <WorkmanW@michigan.gov<mailto:WorkmanW@michigan.gov>>, "Stanton, Terry A. (Treasury)" <StantonT@michigan.gov<mailto:StantonT@michigan.gov>>
Subject: Re: follow up

Not Responsive

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Sent: Thursday, October 1, 2015 6:08 PM
To: Saxton, Thomas (Treasury); Koryzno, Edward (Treasury); Byrne, Randall (Treasury)
Subject: RE: follow up

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Timeline is 9 months until June 2016

Fixed Cost is $662,100 for 9 months or $5,958,900

Commodity Rate is $501,383/month

Total Monthly Cost is $1,163,483

Cost until June 2016 is $10,471,347

The City does not know the cost to move the water plant into stand-by mode. However, they have indicated that there might be some reduced costs as lower chemical costs will be incurred.

Eric Cline | Department Manager | State of Michigan

Michigan Department of Treasury | Local Government Financial Services Division | Fiscal Responsibility Section

430 W. Allegan Street, 3rd Floor | Lansing, MI 48922

Lansing Office (517) 335-2078 | Cell Phone PPI | Traverse City Office (231) 922-5228

E-mail cliner1@michigan.gov

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From: Saxton, Thomas (Treasury)
Sent: Thursday, October 01, 2015 6:01 PM
To: Cline, Richard (Treasury) <cliner1@michigan.gov<mailto:cliner1@michigan.gov>>; Koryzno, Edward (Treasury) <KoryznoE@michigan.gov<mailto:KoryznoE@michigan.gov>>; Byrne, Randall (Treasury) <ByrneR1@michigan.gov<mailto:ByrneR1@michigan.gov>>
Subject: follow up
Importance: High

I am getting ready to leave... what have you learned ?

From: Brown, Frank
Sent: Saturday, October 03, 2015 9:50 AM
To: Baird, Richard (GOV); PPI
Subject: Fwd: Flint water background information
Attachments: Attachment-1.jpeg

Not Responsive

From: <
Date: October 3, 2015 at 9:40:29 AM EDT
To
<c
<T
Subject: RE: Flint water background information

Not Responsive

-----Original Message-----
From: Brown, Frank [mailto:fbrown@generalatlantic.com]
Sent: Wednesday, September 30, 2015 10:48 AM
To: Menear, Craig A; Tome, Carol; Crow, Tim
Subject: Fwd: Flint water background information

Not Responsive

Sent from my iPad

Begin forwarded message:

From: "Baird, Richard (GOV)" <bairdr@michigan.gov<mailto:bairdr@michigan.gov><mailto:bairdr@michigan.gov>>
Date: September 30, 2015 at 3:34:15 PM GMT+1
To: "Frank Brown

Cc: "Hollins, Harvey (GOV)" <hollinsh@michigan.gov<mailto:hollinsh@michigan.gov><mailto:hollinsh@michigan.gov>>
Subject: FW: Flint water background information

Frank:

We have a situation in Flint, Michigan that is beginning to get national attention and could be an opportunity for Home Depot. 18 months ago, Flint switched its water supply from Detroit Water (the distance and pumping costs of going uphill made it quite expensive) to the Flint River as a temporary answer, until they could finish the construction to get their water from Lake Huron (Karagondi Water System). The corrosive attributes of the River water have exacerbated the lead deposit leaching into homeowner pipes and there is concern around lead poisoning, especially for infants.

The corporate community is rallying to address the problem. Meijer donated 1500 water filters to low income residents and GM is about to announce a donation of between 5,000 and 10,000 filters. I do not yet know where GM is getting the filters from, but I was thinking that Home Depot might want to join the effort with a donation, supply chain discounting assistance, or some combination of activity that could help Flint residents. Harvey Hollins is our point person for this effort, since he is the Director of Urban Initiatives for Governor Snyder. I have copied him here.

If you could get this into the hands of the right people and see if there is interest in speaking with Harvey, I would be very appreciative. Thanks and take care.

Regards,

Rich

From: Murray, David (GOV)
Sent: Wednesday, September 30, 2015 9:35 AM
To: Baird, Richard (GOV)
Subject: Flint water background information

Hi Rich,

These are two documents that I think are helpful addressing the questions about lead and Flint water overall, prepared by DEQ and DHHS. These were intended for internal use, so please ask our partners to not share them beyond the people on their teams making the decisions.

Please let me know if you need anything else.

Dave

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov<mailto:MurrayD1@michigan.gov><mailto:MurrayD1@michigan.gov>
517-335-6397, office
PPI , mobile
Twitter:@michigandmurray

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[cid:A2F234B4-A10A-4824-B5B1-1ED79504A765]

From: Darnell Earley <darnell.earley@detroitk12.org>
Sent: Tuesday, October 13, 2015 4:15 PM
To: Baird, Richard (GOV)
Subject: Re: flint docs

Thanks for your help and your support Rich.

Sent from my iPhone

On Oct 12, 2015, at 5:01 PM, Baird, Richard (GOV) <bairdr@michigan.gov> wrote:

> **From:** Workman, Wayne (TREASURY)
> **Sent:** Wednesday, October 07, 2015 4:25 PM
> **To:** Hollins, Harvey (GOV)
> **Cc:** Muchmore, Dennis (GOV); Stanton, Terry A. (Treasury); Saxton, Thomas (Treasury); Wurfel, Sara (GOV); Wurfel, Brad (DEQ); Baird, Richard (GOV)
> **Subject:** FW: flint docs
>
> Harvey, Attached are various documents and press reports of the City Council's vote in March 2013 to join KWA. We have not located the actual resolution and it is not on the City's website. It is interesting that the only no vote explained he wanted to just use Flint River water. Wayne
>
> Wayne L. Workman
> Deputy State Treasurer
> Michigan Department of Treasury
>
> **From:** Dempkowski, Angela (Treasury)
> **Sent:** Wednesday, October 07, 2015 4:20 PM
> **To:** Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
> **Subject:** flint docs
>
> Revised pdf

Angela Dempkowski | Senior Executive Management Assistant/Treasury
State of Michigan | 430 W. Allegan Street, 1st Floor | Lansing, MI 48922
(517) 373-4415 | (517) 373-0633 (fax)
dempkowskia@michigan.gov

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intended recipient, please contact the sender by reply e-mail, and delete/destroy all copies of the original message and attachments.
Thank you

<Flint.pdf>

From: Anderson, Madhu (DEQ)
Sent: Wednesday, October 21, 2015 1:38 PM
To: Baird, Richard (GOV)
Cc: Wyant, Dan (DEQ); Lyon, Nick (DHHS); VanSickle, Michele (GOV); Murray, David (GOV)
Subject: Draft Scope - for member review
Attachments: Flint Water Task Force.draftscope.211015.docx

Rich - The Flint Water Task Force members asked for a draft scope prior to the announcement being made this afternoon. Hopefully, I captured their intent in the attached document. Could you forward this document to the members after you have had a chance to review?

Thanks,

Madhu R. Anderson
Deputy Director, Economic & Strategic Initiatives
☎ 517 284 6702 | 517 290 9653
✉ andersonm30@michigan.gov
DEQ

(DRAFT)
FLINT WATER ADVISORY TASK FORCE
AFTER-ACTION REVIEW

The Flint Water Task Force is an independent advisory panel appointed by Governor Rick Snyder charged with reviewing actions regarding water use and testing in Flint and with offering recommendations for future guidelines to protect the health and safety of all state residents.

The task force expects to summarize its work in a report to be presented to Governor Rick Snyder within ninety (90) days.

GOALS

The Flint Water Task Force's goals are as follows:

- Complete a thorough review of all steps taken by state and local officials regarding the decision to switch the City of Flint's water source to the Flint River from the Detroit Water and Sewerage Department's system (DWSD).
  - Produce a timeline of actions
  - Establish why each action was taken

- Review the roles of the federal, state, and local officials in the decision-making process
  - Identify best practices for federal, state, and local officials to work together in future similar situations
  - Evaluate where coordination between these entities could have been better, and how it could be improved

- Review federal, state, and local actions and protocols
  - Determine whether the proper procedures were followed
  - Identify which procedures should be changed

- Monitor and review the process, procedures, and protocols being followed as the City of Flint returns to the DWSD system
  - Ensure that proper corrosion controls and testing are in place
  - Highlight the appropriate actions that the City of Flint should follow when the future switch is made to the Karegnondi Water Authority's system

- Assess future practices
  - Highlight practices that should change for communities in similar situations
  - Recommend changes in law, procedure, or practice to ensure all Michiganders are drinking safe water

From: Anderson, Madhu (DEQ)
Sent: Thursday, October 22, 2015 4:47 PM
To: Davis, Matthew (Matt); erothste@grg-ltd.com; Ken Sikkema; Chris Kolb; reynolds@mottchc.org
Cc: VanSickle, Michele (GOV); Baird, Richard (GOV)
Subject: Task Force - Email 1: General Background
Attachments: Flint Water Backgrounder.docx; Draft Flint Drinking Water Events Timeline.docx; FlintWater_ActionPlan_100115_501844_7.pdf; 3rd Quarter CoF Water Quality Report (2).pdf

All – Per your request, in the next 7 emails, you will receive materials (by general category) that should give you some background on the issues that you will be addressing for the Flint Water Task Force. I have divided them into 7 emails to help you manage the subject matter.

Email 1: General Background includes a timeline, backgrounder, Action Plan, and the City of Flint's 3rd quarter water quality report. You may also find a significant amount of material online from various sources.

Madhu

From: Davis, Matthew (Matt) [mailto:mattdav@med.umich.edu]
Sent: Thursday, October 22, 2015 10:49 AM
To: Anderson, Madhu (DEQ); Ken Sikkema
Cc: Chris Kolb; erothste@grg-ltd.com; reynolds@mottchc.org; VanSickle, Michele (GOV); Baird, Richard (GOV)
Subject: RE: Roster of Task Force and Supporting Cast

Madhu – thanks on behalf of all of us.
We especially appreciate the ability to share electronically so that we can review in a more timely fashion.
Matt

From: Anderson, Madhu (DEQ) [mailto:AndersonM30@michigan.gov]
Sent: Thursday, October 22, 2015 9:42 AM
To: Ken Sikkema
Cc: Chris Kolb; Davis, Matthew (Matt); erothste@grg-ltd.com; reynolds@mottchc.org; VanSickle, Michele (GOV); Baird, Richard (GOV)
Subject: RE: Roster of Task Force and Supporting Cast

All - FYI… I should have a set of 'briefing' materials this afternoon as requested. We will be able to send much of it electronically, and provide links to materials available online.

Madhu

From: Ken Sikkema [mailto:ksikkema@pscinc.com]
Sent: Thursday, October 22, 2015 9:35 AM
To: Baird, Richard (GOV)
Cc: Chris Kolb; mattdav@med.umich.edu; erothste@grg-ltd.com; reynolds@mottchc.org; Anderson, Madhu (DEQ);

VanSickle, Michele (GOV)
Subject: Re: Roster of Task Force and Supporting Cast

good...thank you

Ken

On Thu, Oct 22, 2015 at 9:31 AM, Baird, Richard (GOV) <bairdr@michigan.gov> wrote:

Ken and Team:

I asked my assistant Michele to put this together so that everyone's contact information could be found in a single place.

Regards,

Rich

--

Ken Sikkema
Senior Policy Fellow
Public Sector Consultants
PH: 517-484-4954
ksikkema@pscinc.com

****
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STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING

RICK SNYDER
GOVERNOR

DAN WYANT
DIRECTOR

Backgrounder on City of Flint Water

After a change in the water source for Flint residents, there have been concerns related to the water quality, in particular lead in the water, and its impact of the community. As a result, Department of Health and Human Services (DHHS) and the Department of Environmental Quality (DEQ), working with local public health departments and the City of Flint (City), have put together an Action Plan to address public health concerns in the City.

While Flint water is meeting all state and federal drinking water standards, there is an increasing level of concern that the Flint River is not the best water source. The City's Technical Advisory Committee recommended the City switch back to DWSD. In addition, recent studies by Hurley Children's Hospital, and confirmed by DHHS, have indicated a rise in blood lead levels in some Flint children. Sample screening completed last week by the DEQ indicated that some Flint Public Schools have detectable lead levels in their water.

Action Plan:
Immediately, the City and State announced the following steps:

- Governor named Dr. Eden Wells as Flint Public Health Advisor
- Advisories issued recommending residents flush their cold water pipes before use, as well as only use water from the cold water tap for drinking, cooking and especially making baby formula.
- Schools are advised to not use the drinking water fountains and are using bottled water.
- Free filters are available to all households in Flint, along with replacement filters.
- Flint Public Schools were screened for lead exposure.

For the near term, the City and State are asking for/ doing the following:

- Switch the drinking water source from the Flint River to DWSD.
- Test and inspect all schools in Flint, including charter and parochial schools.
- Free water testing for all homes.
- Expand exposure testing to additional households in Flint.

For the long term health of all Flint residents, the City and State have committed to:

- Switching to the Karegnondi Water Authority in the summer of 2016 as the permanent water supply for the City of Flint
- Allow for Drinking Water Revolving Loan funds to be used to expedite the replacement of private residential lead service lines.
- Lead exposure campaigns for homes, schools and communities.

Budget Request:
To facilitate the action plan outlined above, the State is requesting $10.6 million ($8.2 million GF). The funding will address 4 priority areas:

1. Provision of filters for residential service ($2,016,000)

Filters will be provided to all Flint households, including replacement filters until the system is fully optimized. Each filter cost is $20.

2. 50% of the estimated cost to reconnect temporarily to the DWSD ($6,000,000)

The City has estimated it will cost an additional $1.3 million per month to use DWSD instead of the Flint River. The State and City have agreed to split the cost through July 2016 when the new Karegnondi Water Authority will be completed and Flint will switch to that water source.

3. Funding for testing water samples ($1,000,000)

New testing protocols for schools will require each faucet in the school be tested and evaluated at the State's lab. In addition, lead exposure testing in homes will result in thousands of additional samples that will need to be evaluated. Each sample cost $26 to process.

4. Lead exposure testing and inspections ($1,600,000)

DHHS, DEQ and LARA are pulling together a team to go into schools and high risk homes to test and evaluate lead exposure.

Flint Drinking Water Events Timeline

- Pre-1967 Flint Water Treatment Plant in operation using Flint River
- Post-1967 Flint switched to DWSD for drinking water
- Mid-2000s Discussions began regarding Karegnondi Water Authority
- April 2013 Flint notifies DWSD of contract discontinuation and joins the Karegnondi Water Authority
- April 2013 DWSD sets termination of Flint water service contract to April 17, 2014
- June 2013 Karegnondi Water Authority groundbreaking
- June 2013 Flint notifies DEQ of intent to use of Flint Water Treatment Plant full time with Flint Water
- May 2014 Flint stops purchasing DWSD water. Starts using the City of Flint WTP and Flint River
- Aug 2014 Flint E.Coli Bacteria violation, Partial System Boil Water Advisory
- Aug 2014 Disinfection Byproducts, DEQ requests preemptive Operational Evaluation
- Sept 2014 Flint Total Coliform Bacteria violation, Partial System Boil Water Advisory
- Oct 2014 General Motors announces decision to stop using Flint water
- Nov 2014 Disinfection Byproducts violation begins
- Jan 2015 1st 6-month lead and copper sampling completed 100 samples, 90th% = 6 ppb
- July 2015 2nd 6-month lead and copper sampling completed 69 samples, 90th% = 11 ppb
- Aug 2015 Disinfection Byproducts return to compliance
- Aug 2015 Flint required by DEQ to recommend and install Optimized Corrosion Control Treatment
- Sept 24, 2015 Hurley Children's Hospital data reveals high lead levels in Flint children
- October 8, 2015 State screening results show elevated lead levels in Flint schools

- October 15, 2015 State Legislature authorizes a $9 million to assist the City of Flint to pay for the return to the Detroit water system and to fund staff at schools to gauge lead exposure

- October 16, 2015 First weekly coordination meeting held with the City of Flint and state agencies

- October 16, 2015 DEQ meets with Flint Schools Superintendent and Genesee County Health Department

- October 16, 2015 Flint switches back to DWSD for water

- October 21, 2015 Governor Snyder announces formation of Flint Water Task Force to complete an After-Action Review

- July 2016 Planned connection to Karegnondi Water Authority (Lake Huron water to Flint WTP)

TAKING ACTION ON FLINT WATER

www.mi.gov/FlintWater

- The Action Plan -

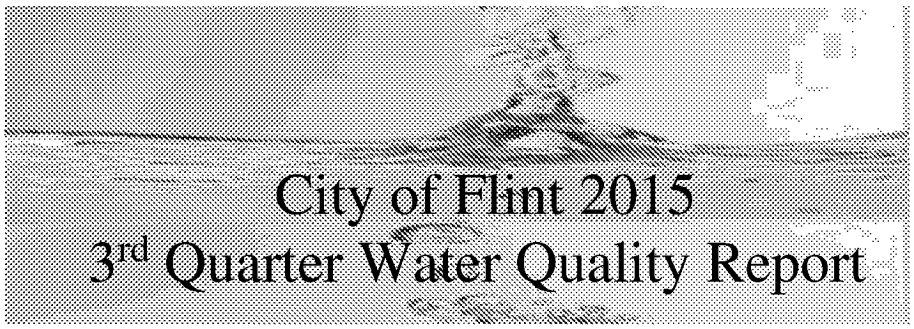
- Testing in Flint public schools immediately to ensure that **drinking water is safe**, with testing also available at no cost to any other school in Flint.
- **Offering free water testing** to Flint residents to assure their drinking water is safe.
- **Providing free water filters** to residents with concerns or who are included in state assistance programs.
- **Expanding health exposure testing** of individual homes.
- **Accelerating corrosion controls** in the Flint drinking water system.
- **Accelerating water system improvements** to address replacing lead service lines.
- Expediting the completion of the **Karegnondi Water Authority** pipeline.
- **Expanding a Safe Drinking Water Technical Advisory Committee** to ensure the best technology, practices and science are being followed by adding an expert from the Environmental Protection Agency's Office of Research and Development to the group.
- Naming Dr. Eden Wells, chief medical executive for the Michigan Department of Health and Human Services, as the **Flint drinking water public health adviser**.
- Boosting a **comprehensive lead education program** to make sure residents have detailed information about how to protect themselves and their homes.

To get your water tested for free, please call the city of Flint Water Plant at (810) 787-6537 and then press 1.
You can also email flintwater@cityofflint.com

Visit www.mi.gov/FlintWater for more information

Customer Service Center
City Hall
1101 S. Saginaw St.
Flint, MI 48501

Postage



The Quarterly Water Quality Report provides important information about your drinking water. This report includes information about the water source, current drinking water issues, lead information, water filters, 3rd quarter work accomplished, and a water timeline of events. The City of Flint Department of Utilities is dedicated to providing quality drinking water to the residents of the community. The Flint Water Plant operates and maintains a certified drinking water laboratory to assure compliance with all state and federal regulations, and is committed to prompt and thorough notification to the consumers if there is any reason for concern about the quality of the drinking water. Information about your drinking water is available on the City of Flint web page at www.cityofflint.com or by calling the City of Flint Water Plant at **(810) 787-6537**. The Safe Drinking Water Hotline at **(800) 426-4791** is a resource for health related questions and water quality issues. General drinking water information can also be found on the U.S. Environmental Protection Agency (EPA) web site at www.epa.gov/safewater/.

Water Source

The City of Flint began using the Flint River as a water source in May of 2014. After 16 months of treating water from the Flint River, the City became aware that the level of corrosiveness found in Flint River water could result in more lead leaching from service lines and household plumbing. Reports of elevated blood lead levels in children and expert analysis resulted in the City's Technical Advisory Committee making a recommendation to return to the previous source of water while waiting for the KWA to provide water from Lake Huron.

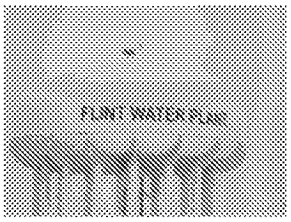
On Friday October 16th, 2015, with the consent of Governor Snyder, the City returned to Detroit as the primary source of drinking water. The decision, along with the Technical Advisory Committee's recommendation followed two consecutive lead and copper test periods that exceeded 5ug/L which calls for additional action. In addition to the switch, the City has submitted a final corrosion control design to the DEQ for comments and approval. The City has requested to use the corrosion control as an additive to treated water it will be required when the city begins treating raw water from the Karegnondi Water Authority which is anticipated to begin in the summer of 2016.

In order to make the transition possible, the City contributed $2 Million dollars, the Mott Foundation contributed $4 Million dollars, and the State of Michigan contributed $ 6 Million dollars.

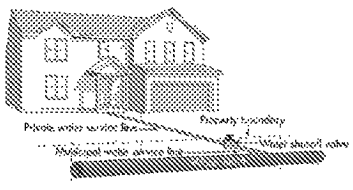
Current Drinking Water Issues & Lead Information

There has been a heightened awareness of lead leaching into drinking water through service lines and household plumbing. The City's Technical Advisory Committee has enlisted the support of EPA lead experts and is working with State of Michigan representatives to increase testing, rebuild public confidence, and implement long-term solutions to lead. It is recommended that everyone get their water tested, obtain a water filter, and check with a plumber to evaluate the type and condition of your household plumbing. The City is currently mapping all of its lead service lines and working to develop a program to get lines changed over time.

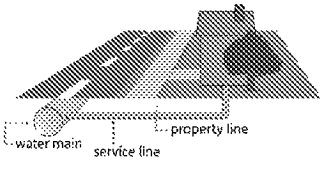
If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of Flint is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 5 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.



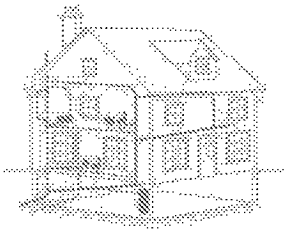
No lead in water leaving the Treatment Plant.



Little or no lead in water in the transmission mains.



Lead can leach into water through service lines.



Lead can leach into water through household plumbing.

Water Filters & Testing

Free water filters have been made available to current Flint residents at several locations. The MDHHS and the Genesee County Community Action Resource Department (GCCARD) are providing Free National Sanitation Foundation certified water filters at the following locations.

Residents receiving MDHHS assistance are encouraged to visit either the **125 E. Union St.** or **4809 Clio Rd. MDHHS** office location to obtain a free, certified home water filter. Residents who are not currently enrolled in MDHHS assistance programs should visit the (GCCARD) offices located at **2727 Lippincott** and **601 N. Saginaw** in Flint.

Staff will be onsite at all four locations from **9 a.m. to 4 p.m., Monday through Friday**, to distribute filters and assist residents who have questions about proper installation.

If you want more information on obtaining a water filter, please call 211.

Other suggestions related to water safety and testing:

- We recommend that everyone get their water tested. Call us at (810)-787-6537.
- Contact the Health Department about having your child's blood tested (810)-257-3612.
- It is advisable to have a plumber check your household plumbing.
- Check your faucet aerator (large lead solder particles can occasionally get lodged in here).

Temporary issues to be aware of when Changing Water Sources

Changing water sources back to Detroit will not fully eliminate the lead concerns. The potential for lead to leach off of certain water service lines or household plumbing will continue to exist regardless of the water source. The City is committed to increased testing, better communication, and developing a lead service line map to identify all of the City owned lead service lines.
As the city changes water sources you can expect the following:

- It could take up to three weeks for the switch in water source to reach all taps in the City.
- Over the next several weeks, we will be winterizing our hydrants which will result in discoloration of the water but will also help accelerate the water flowing through the system.
- Lead will continue to leach off of certain service lines and household plumbing.
- Main breaks could result as a change in source water occurs.
- Water could have discoloration or cloudiness, if this happens, run your faucet until the water clears, if this lasts longer than 20 minutes please report it to our water service center at (810)-766-7202.

Water Timeline

A timeline of events, beginning with signing the KWA contract leading up to the current status of switching back to our previous source of water is available on the City website and can be found by visiting the "water" page located under "residents". Please email flintwater@cityofflint.com with your questions or to request a water test or, call the Water Plant at (810)-787-6537.

3rd Quarter Events

July

- Completed the evaluation of over 8000 valves in the system and identified over 2300 that are currently inoperable. The repair of these valves will be budgeted and worked into our multi-year Capital Improvement Plan.

August

- Successfully completed the installation of Granulated Activated Carbon at the water treatment plant which reduced the TTHM level in the water and helped bring the City back into compliance with the Safe Drinking Water Act.

September

- Leak Detection on all 600 miles of the distribution system has started and is over halfway complete. Several dozen leaks have been identified and repairs continue as more leaks are found. This has decreased the amount of water loss existing in the system.
- Construction of a load out facility at our wastewater plant is on target for completion by November and will allow the City to eliminate the use of the incinerator resulting in significant annual savings.
- Over 3500 new water meters have been installed this year creating better accuracy, accountability, and decreasing the number of estimated reads on water & sewer bills.

Contact Information

Water Treatment Plant - (810)-787-6537
Request a water test.
Request a tour of the Plant.
Ask questions about water quality.

Water Service Center - (810)-766-7202
Report a water leak or other system issues.

Water Pollution Control - (810)-766-7210
Inquiries related to wastewater treatment.
Inquiries related to converting methane gas into energy.

Customer Service – (810)-766-7015
Questions about your water & sewer bill.

Water Filters – 211
Questions about water filters.

2015 3rd Quarter Regulated Detected Contaminants – **Flint River as Source**

Inorganic & Organic Chemicals, Metals, and Pesticides – Monitored at treatment plant						
Regulated Contaminant	Unit of Measure	MCLG	MCL	Highest Level Detected	Range of Detection	Violation
Inorganic Chemicals						
Fluoride	mg/L	4	4	0.84	0.64 – 0.84	No
Nitrate	mg/L	10	10	N.D.	N/A	No
Metals						
Barium	mg/L	2	2	0.02	N/A	No

More than 100 other chemicals were monitored from July through September that were not detected.

The various classification groups of these chemicals include metals, carbamates, herbicides, pesticides, organics, and radiologicals.

Total Organic Carbon, TOC - Monitored at treatment plant			
Regulated Contaminant	Required Monthly % Removal	Minimum Monthly % Removal	Monthly % Removal Ranges
Total Organic Carbon	50	60	60 - 87

Turbidity - Monitored at treatment plant		
Highest Single Measurement (Cannot exceed 1NTU)	Lowest Monthly % of Samples Meeting Turbidity Limit (0.3 NTU in 95% of samples)	Violation
0.18	100 %	No

Disinfectant Residuals – Monitored in the distribution system						
Regulated Contaminant	Unit of Measure	MCLG	MCL	Highest Level Detected	Range of Detection	Violation
Total Chlorine Residual	mg/L	4.0	4.0	4.0	0.2 – 4.0	No

Microbiological Contaminants - Monitored in the distribution system				
Regulated Contaminant	MCLG	MCL	Highest Number detected (in 1 month)	Violation
Total Coliform bacteria	0	The presence of coliform bacteria in > 5% of monthly samples	1	No
E. coli Bacteria	0	0	0	No

Lead & Copper – Monitored from consumers tap					
Regulated Contaminant	Unit of Measure	MCLG	Action Level AL	Number of samples over AL	Total # of Samples Tested from January - September
Lead	ug/L	0	15	16	189
Copper	mg/L	1.3	1.3	0	189

Disinfection By-Products - Monitored in the distribution system and from treatment plant						
Regulated Contaminant	Unit of Measure	MCLG	MCL	Highest Level Detected	Range of Detection	Violation
Total Trihalomethanes (TTHM)	ug/L	n/a	80	90.3	42.6 – 90.3	N/A*
Haloacetic Acids (HAA)	ug/L	n/a	60	15.0	2.0 – 15.0	N/A*
Bromate	ug/L	10	10	N.D.	N/A	N/A*

*Violation based on locational running annual average for TTHM & HAA5, violation for bromate based on yearly average.

Key to the Detected Contaminant Tables		
Symbol	**Abbreviation for**	**Definition/Explanation**
>	Greater than	
AL	Action Level	The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements which a water system must follow.
HAA5	Haloacetic Acids	HAA5 is the total of bromoacetic, chloroacetic, dibromoacetic, dichoroacetic, and trichloroacetic acids. Compliance is based on the total .
LRAA	Locational Running Annual Average	
MCL	Maximum Contaminant Level	The highest level of a contaminant that is allowed in water. MCLs are set as close to the MCLG's as feasible using the best available treatment technology.
MCLG	Maximum Contaminant Level Goal	The level of contaminant in drinking water below which there is no known or expected risk to health.
mg/L	Milligrams per Liter	A milligram = 1/1000 gram 1 milligram per liter is equal to 1ppm
MRDL	Maximum Residual Disinfectant Level	The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
MRDLG	Maximum Residual Disinfectant Level Goal	The level of a drinking water disinfectant below which there is no known or expected risk to health. MRLDG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.
n/a	Not Applicable	
ND	Not Detected	
NTU	Nephelometric Turbidity Units	Measures the cloudiness of water.
pCi/L	Picocuries per Liter	A measure of radioactivity. Picocurie (pCi) means the quantity of radioactive material producing 2.22 nuclear transformations per minute.
ppb	Parts Per Billion (one in one billion)	The ppb is equivalent to micrograms per liter. A microgram = 1/1000 milligram.
ppm	Parts Per Million (one in one million)	The ppm is equivalent to milligrams per liter. A milligram = 1/1000 gram.
RAA	Running Annual Average	
TT	Treatment Technique	A required process intended to reduce the level of a contaminant in drinking water.
TTHM	Total Trihalomethanes	Total Trihalomethanes is the sum of chloroform, bromodichloromethane, dibromoochloromethane and bromoform. Compliance is based on total.
ug/L	Micrograms per Liter	A microgram = 1/1,000,000 gram 1 microgram per liter is equal to 1ppb

From: Anderson, Madhu (DEQ)
Sent: Thursday, October 22, 2015 4:54 PM
To: Davis, Matthew (Matt); erothste@grg-ltd.com; Ken Sikkema; Chris Kolb; reynolds@mottchc.org
Cc: VanSickle, Michele (GOV); Baird, Richard (GOV)
Subject: RE: Task Force - Email 3: Outreach materials
Attachments: deq-2015-10-14_-_Lead_-_Flint_Water_Fact_Sheet_02_503394_7.pdf; FlintWater_Tips_100115_002_501845_7.pdf; Parent_Handout_Sept2015_501830_7.pdf

All – these are general outreach materials that have been provided to the public.

Madhu R. Anderson
Deputy Director, Economic & Strategic Initiatives
☎ 517 284 6702 | 517 290 9653
andersonm30@michigan.gov
DEQ

Frequently Asked Questions About
Lead in Flint Water

- Lead is hard to avoid completely. It can be found in old paint, water pipes and brass water faucets, in dirt, at some job sites, and in metal used for some hobbies.
- The amount of lead found in some Flint homes' drinking water could affect kids' health.
  - Even small amounts of lead can harm kids' health because they are little and still growing.
  - Adults are less likely to be harmed by the levels found in the water.
- Filter your drinking water using an NSF-approved filter. Find an approved filter at http://www.gchd.us/docs/lead_filter_information.pdf.
- Some filters can remove up to 99% of the lead in water when used properly. To be sure your filter is removing as much lead as it can, carefully follow the instructions that came with it.
  - Change the filter cartridge as often as you should.
  - Run only cold water through the filter.
- Even after changes to the water system, it may take a while before lead levels in your home's water drop. Use the tips below to know when it's best to use filtered water:

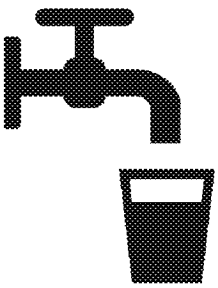
Lead in Water

Although your water may be a different color sometimes, it is not caused by lead. It's important to remember:

- **You can't see, smell, or taste lead in water.**
- **Lead won't change the color of your water.**
- **The only way to know what your home's lead levels are is by having your water tested in a lab.**

Please call the Flint Water Dept. at 810-787-6537 to request a free or low-cost water test.

In The Kitchen



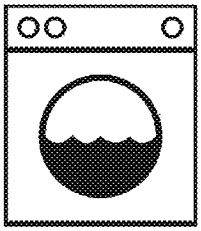
Use filtered tap water for:

- Drinking (including making coffee, drink mixes, juice, baby formula)
- Cooking (even if you boil the water, the lead will stay in the water and food)
- Washing fruits and vegetables

You can use unfiltered tap water for:

- Washing your hands
- Washing dishes
- Wiping down countertops

Cleaning



You can use unfiltered tap water for:

- Mopping floors
- Washing clothes

Your washing machine and dryer won't put lead from the water into the air of your home.

In the Bathroom

Use <u>filtered</u> tap water for:

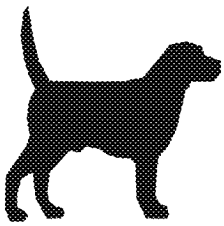
- Brushing kids' teeth

You can use <u>unfiltered</u> tap water for:

- Showers
- Baths (don't let kids drink the water as they play in the tub)
- Brushing your teeth (if you are an adult)

Lead will not cause rashes or other skin problems. However, if chlorine levels or other cleaners are high in the water, it may cause itchy or dry skin (similar to what can happen when you swim in a pool).

Caring for Pets



Use <u>filtered</u> tap water for:

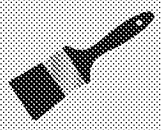
- Pets' water bowls

You can use <u>unfiltered</u> tap water for:

- Baths

If you notice your pet acting differently than normal, please contact your vet.

Other Sources of Lead in Your Home

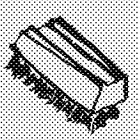


Lead Paint

- Homes built before 1978 likely have lead paint, both inside and outside.
- Old paint is the most common way that kids are exposed to lead.

Dirt

- If you live in the city, there may be lead in the dirt outside your home.
- Before 1996, gas and the exhaust from cars contained lead. More lead will be found in dirt in busy traffic areas.



Dust

- The dust in your home can contain tiny amounts of both the paint and the dirt that contain lead.

Hobbies & Jobs

- Solder, fishing sinkers, bullets, and stained glass framing materials are some of the items in your home that may contain lead. You could also track home lead dust from your job site.

Have Questions?

For more information about protecting yourself and your family from lead, please visit:

<u>www.michigan.gov/lead</u>

Or you can call the Michigan Department of Health and Human Services at:

1-800-648-6942

The staff at this number will help direct you to the best department that can answer your questions about lead in your home.

To request a free or low-cost water test, please call the Flint Water Dept. at:

1-810-787-6537

MDHHS

Michigan Department of Health & Human Services

TAKING ACTION ON FLINT WATER

www.mi.gov/FlintWater

- Tips for Flint Residents -

Lead plumbing is common in homes built prior to 1986, and anyone in the state with lead pipes in their home can take some extra precautions to minimize lead in their drinking water.

1. Get your water tested at no cost to ensure water is safe. **To get your water tested**, please call the city of Flint Water Plant at (810) 787-6537 and then press 1.

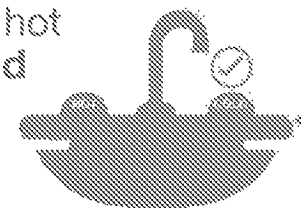
2. To ensure safe drinking water, you can also get a free filter. Please visit **mi.gov/FlintWater** to find where you can get a free filter.

3. If testing finds lead or other pollutants in drinking water from plumbing, then **flushing your pipes prior to using them** can significantly reduce your exposure.

To flush your pipes, run the water until it gets as cold as it will get. This can take as little as 5 to 30 seconds if you have recently flushed the toilet or otherwise used water in your home, or as long as 2 to 3 minutes if you have not used any water in hours.

If the City of Flint, **running the water for 5 minutes costs between 3 and 15 cents.**

4. Additionally, more lead gets into hot water than cold water. **Use only cold water for drinking, cooking and making baby formula.**



To get your water tested for free, please call the city of Flint Water Plant at (810) 787-6537 and then press 1.
You can also email flintwater@cityofflint.com

Visit www.mi.gov/FlintWater for more information

IS YOUR CHILD SAFE FROM LEAD POISONING?

LEARN HOW TO PROTECT YOUR FAMILY:

CREATE A LEAD SAFE HOME

What causes lead poisoning?

There are many places in a home that can put babies and children in danger of lead poisoning.

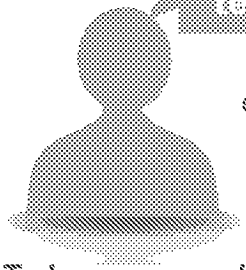
Lead paint is the #1 cause of lead poisoning in Michigan and is often found in homes built before 1978. The older the home, the more likely that painted surfaces like windows, cupboards, doors and porches will contain lead paint.

Lead poisoning occurs most often when children come in contact with lead in the air, in dust particles and in lead paint. Lead can also be found in soil, drinking water if supplied by lead pipes, certain home remedies and is used in some hobbies and occupations.

Exposure to lead particles is a serious health threat. Carefully consider where your child spends time (childcare, relatives, your home) when thinking about lead poisoning hazards.

How can I tell if my child has lead poisoning?

Talk to your doctor about testing your child's blood for lead poisoning.



When should my child be tested for lead poisoning?

Children should be tested at one and two years of age or if you think your child has been exposed to a lead hazard.

To learn more about lead poisoning prevention and blood lead testing, call the Childhood Lead Poisoning Prevention Project:

(517) 335-8885

(888) 322-4453

Take this quiz to see if your child may have lead poisoning:

Symptoms of lead poisoning can be silent—and hard to recognize. Preventing lead poisoning before it happens is the best way to keep your family safe. Take this quiz to see if your child may be at risk.

Does your child currently live in a home built before 1950 or have they lived in a home built before 1950 in the recent past? Do they spend time at or often visit a home built before 1950?

Yes No Don't know

Does your child currently live in a home built before 1978 that was recently remodeled? Have they lived in or often visited a home built before 1978 that was recently remodeled?

Yes No Don't know

Does your child have a brother, sister or playmate with lead poisoning?

Yes No Don't know

Does your child live with an adult whose job or hobby involves lead?

Yes No Don't know

Does you or your child's caregiver use home remedies that may contain lead?

Yes No Don't know

If you answered NO to all of these questions, your child is probably not at risk for lead poisoning.

If you answered YES or DON'T KNOW to any of these questions, talk to your doctor about testing your child for lead poisoning.

MAKE EVERY DAY LEAD SAFE

Safe Cleaning. Use these steps to help keep your home clean and reduce your child's risk of exposure. Use these tips to clean your windows, doors, floors, porches, stairs and child pay areas.

Put on gloves. If you do not have rubber gloves, wash your hands well after cleaning.

Use the right cleaners and disposable supplies. Use soapy cleaners or products made to remove lead dust.

Remove paint chips first. Window areas and porches often have peeling paint and lead dust. Pick up visible chips and dispose of them in a plastic bag.

Always wet-mop floors and window sills. Do not broom lead dust. Dispose of cloths after wiping each area. If using a mop, replace water frequently.

Don't use a vacuum unless it is a HEPA vacuum. It will spread lead dust into the air you breathe. Some health departments have HEPA vacuums available to borrow

Rinse after cleaning. Use clean water and a new mop head or fresh paper towels to wipe away suds.

Always empty wash water down a toilet.

Repeat these steps often when dirt and dust appear on floors, porches, window wells, window sills, stairs and children's play areas.

For Homes with Lead Pipes

If you use a water filter, be sure it meets NSF/ANSI 53 standards for lead reduction.

✓**Flush your pipes before drinking**, and only use cold water for cooking and mixing formula. Flush pipes by running the water for approximately 5 minutes.

✓**Test.** Consider contacting your local water authority to have your water tested.

Daily Lead Safe Practices

- Wash hands, bottles, pacifiers and toys often
- Always take off shoes before going into the house.
- Watch your child's diet. Foods high in calcium and iron help keep lead from being absorbed by a child's body.
- Avoid using power sanders, open-flame torches, heat guns, dry scrapers and dry sandpaper o painted surfaces.
- Fix peeling or chipping paint.
- Use a certified Repair and Remodeling Professional when making updates to your home
- Practice safe cleaning methods.

Thinking about remodeling your home? Need advice about identifying and removing lead paint? Call the Lead and Healthy Homes Section: 866-691-LEAD.

www.michigan.gov/lead

MDHHS
Michigan Department of Health & Human Services

Childhood LEAD POISONING prevention program

From:	Anderson, Madhu (DEQ)
Sent:	Thursday, October 22, 2015 5:07 PM
To:	Davis, Matthew (Matt); erothste@grg-ltd.com; Ken Sikkema; Chris Kolb; reynolds@mottchc.org
Cc:	VanSickle, Michele (GOV); Baird, Richard (GOV)
Subject:	RE: Task Force - Email 7: Documents related to KWA
Attachments:	City of Flint Meeting Minutes 25Mar2013.pdf; 29Mar2013 Adopted Flint Mayor Resolution and news articles.pdf; 25Mar2013 Amended Resolution - EM -KWA.pdf

All – this last email contains information on the decisions regarding the KWA by Flint.

Madhu R. Anderson
Deputy Director, Economic & Strategic Initiatives
☎ 517 284 6702 | 517 290 9653
✉ andersonm30@michigan.gov
DEQ

City of Flint, Michigan

Third Floor, City Hall
1101 S. Saginaw Street
Flint, Michigan 48502
www.cityofflint.com

Meeting Minutes - Draft

Monday, March 25, 2013

5:33 PM

Agenda amended to include Board of Hospital Managers appointments

Council Chambers

CITY COUNCIL

Scott Kincaid, President, Ward 9
Bryant W. Nolden, Vice President, Ward 3

Claudia Croom, Ward 1
Jacqueline Poplar, Ward 2
Joshua M. Freeman, Ward 4
Bernard Lawler, Ward 5
Sheldon A. Neeley, Ward 6
Dale K. Weighill, Ward 7
Michael J. Sarginson, Ward 8

Inez M. Brown, City Clerk

CALL TO ORDER

President Scott Kincaid called the meeting to order at 5:33 p.m.

ROLL CALL

Councilperson Michael Sarginson arrived at 5:37 p.m.

Present: Councilperson: Councilperson Poplar, Vice President Nolden, Councilperson Freeman, Councilperson Lawler, Councilperson Neeley, Councilperson Sarginson, Kincaid, Councilperson Weighill and Councilperson Croom

PLEDGE OF ALLEGIANCE

Councilperson Sheldon Neeley led the Pledge of Allegiance.

SPECIAL ORDER

130217 Special Order/Information & Discussion/Karegnondi Water Authority (KWA)

A Special Order as requested by Council President Scott Kincaid to continue discussion and review of information on the Karegnondi Water Authority (KWA).

Presented

PETITIONS AND UNOFFICIAL COMMUNICATIONS

130193 Change to Digital/All Limited Basic Service Channels/Comcast Cablevision

Communication dated March 6, 2013, from Gerald W. Smith, Government Affairs Manager, Comcast, to Flint City Clerk, re: On or shortly after April 9, 2013, Comcast will convert all Limited Basic service channels -- including Public, Government and Educational Access (PEG) channels to digital format, and will provide customers with digital equipment.

This matter was Placed on File. The motion carried.

130199 Certified Letter/Loyst Fletcher, Jr. & Associates

Communication received from Loyst Fletcher, Jr. to Chief Legal Officer, re: He questions the tax-exempt status of Word of Life Christian Church, which received a tax bill from the city.

This matter was Placed on File. The motion carried.

130200 Local Approval Notice/Michigan Liquor Control Commission (MLCC)/Time Square/Ward 3

Local Approval Notice dated March 14, 2013, from MLCC to Flint City Clerk, re: The MLCC has received a request to transfer all stock in 2012 Class C license with Sunday Sales Permit (PM) and Dance Permit, located at 4522 N. Saginaw,

Flint, Michigan, 48505, Genesee County, held by the estate of Myra Seals, Inc., 1028 Cora Dr., Flint, MI 48532, to Carisa Mays Bishop, Personal Representative. [NOTE: Approval order enclosed.]

This matter was Placed on File. The motion carried.

130202 Local Approval Notice/Michigan Liquor Control Commission (MLCC)/D & R Market, Inc./Ward 6

Local Approval Notice dated March 6, 2013, and received March 15, 2013, from MLCC to Flint City Clerk, re: The MLCC has received an application from 2 AAR, LLC, requesting to Transfer Ownership of a Specially Designated Distributor (SDD) and Specially Designated Merchant (SDM) licensed business with Sunday Sales permit (PM) and Direct Connection-I to D & R Market, Inc., located at 1402-1404 N. Chevrolet, Flint, Michigan, 48504, Genesee County, from 2 AAR, LLC, 3079 Shattuck Arms Blvd., Apt. 5, Saginaw, MI 48603. [NOTE: The application was cancelled pursuant to a request from an attorney.]

This matter was Placed on File. The motion carried.

130204 Changes/Cable Channel Lineup/Comcast Cablevision

Communication dated March 18, 2013, from Gerald W. Smith, Government Affairs Manager, Comcast, to Flint City Clerk, re: effective on or about May 22, 2013, Fox Business Network/Fox Business Network HD (ch. 06/243) will from the Digital Preferred Service to the Digital Starter Service.

This matter was Placed on File. The motion carried.

130205 Media Alert/Flint Public Art Project/Announcement of Design Winner

Media Alert received via e-mail on March 19, 2013, from the American Institute of Architects (AIA), re: The Flint Public Art Project and the Flint Chapter of the AIA will announce the winner of the $25,000.00 grand prize in the inaugural Flat Lot competition to design and build a temporary summer pavilion on Flint's central downtown parking lot at 9:30 a.m. Thursday, March 21, 2013, at the John Gazall & Associates, Mott Building, 503 S. Saginaw Street, Flint.

This matter was Placed on File. The motion carried.

130207 Damage Claims

MAYFIELD, LINDA, 2518 Walter Street, Flint, MI (WARD 2)
LANE, WILLIE C., 3130 Concord Street, Flint, MI (WARD 6)

This matter was Placed on File. The motion carried.

COMMUNICATIONS FROM CITY OFFICIALS

130194 Press Release/City of Flint/Hiring of New Police Officers/Recruitment of Others

Press Release dated March 11, 2013, from Jason Lorenz, City of Flint Public

Information Officer, re: The City of Flint has seven new police officers on the job from the public safety millage passed last November by voters. The city's next step is to hold a recruitment drive by working with a local college, which will set up a Police Academy when the city has gathered sufficient interest from its efforts.

This matter was Placed on File. The motion carried.

130195 Press Release/City of Flint/Sunday Sales of Alcohol Before Noon Not Permitted on St. Patrick's Day

Press Release dated March 12, 2013, from Jason Lorenz, City of Flint Public Information Officer, re: The City of Flint will not be able to permit Sunday alcohol sales before noon this Sunday, March 17, St. Patrick's Day. While the city adopted a resolution to allow a one-time exception to the Sunday morning alcohol ban, the Michigan Liquor Control Commission has taken the position that the city cannot create a one-day exemption.

This matter was Placed on File. The motion carried.

130196 Flint City Council/Public Notice/Special City Council Meeting/March 18, 2013

Public Notice posted March 14, 2013, re: The Flint City Council will hold a Special City Council Meeting, followed by a Finance Committee Meeting, at 5:30 p.m. Monday, March 18, 2013, in the City Council Chambers, 3rd Floor, City Hall, to consider a contract with the Karegnondi Water Authority (KWA).

This matter was Placed on File. The motion carried.

130201 Emergency Financial Manager (EFM) Order #10/Grant Applications

Order #10 issued by Emergency Financial Manager on March 15, 2013, "Grant Applications," re: "all city officials, department heads, division heads and employees shall adhere to ...requirements regarding the approval of any and all grant applications on behalf of the City of Flint or grant applications submitted by others which in any way involves the financial, programmatic or personnel support by the City of Flint." The five requirements, including the stipulation that only the Emergency Financial Manager or City Administrator are authorized to accept grants on behalf of the city, are included in the order.

This matter was Placed on File. The motion carried.

130203 Press Release/City of Flint/Flint Lifelines/Meeting Announcement

Press Release dated March 16, 2013, from Jason Lorenz, City of Flint Public Information Officer, re: Flint Lifelines, formerly CeaseFire Flint, will hold community meetings on the fourth Thursday of each month, beginning at 1 p.m. Thursday, March 28, 2013 at Flint Northwestern High School. The meetings are open to the public.

This matter was Placed on File. The motion carried.

130206 Flint City Council/Public Notice/Finance Committee Meeting/March 20, 2013

Public Notice posted March 19, 2013, re: The Flint City Council will hold a Finance Committee Meeting at 5:30 p.m. Wednesday, March 20, 2013, in the City Council Committee Room, 3rd Floor, City Hall.

This matter was Placed on File. The motion carried.

130208 Flint City Council/Public Notice/Special Affairs Committee Meeting/March 25, 2013

Public Notice posted March 22, 2013, re: The Flint City Council will hold a Special Affairs Committee Meeting at 5 p.m. Monday, March 25, 2013, in the City Council Committee Room, 3rd Floor, City Hall. A regular City Council meeting will immediately follow in the Council Chambers.

This matter was Placed on File. The motion carried.

130209 Traffic Engineering/Note for Bulletin/Street-Sidewalk-Lane Closures

Notes for Bulletin (3) dated February/March 2013, for street, sidewalk, or lane closures, re: (1) Harrison Street, Saginaw Street and Second Avenue (cable failure-March 11-March 20); (2) First Street, Harrison Street, Wallenberg, Kearsley, Crapo, Horrigan, and Harrison (St. Patrick's Day Pot O' Gold 4-Mil Run/Walk-March 17); and (3) Chevrolet Avenue (University Corner Grand Opening-March 22).

This matter was Placed on File. The motion carried.

Passed The Consent Agenda

A motion was made. The motion carried.

PUBLIC SPEAKERS

ROLL CALL

Councilperson Dale Weighill left at approximately 7 p.m.

Present: Councilperson: Councilperson Poplar, Vice President Nolden, Councilperson Freeman, Councilperson Lawler, Councilperson Neeley, Councilperson Sarginson, Kincaid and Councilperson Croom

Absent: Councilperson: Councilperson Weighill

APPOINTMENTS

130169.1 Amendment/Reappointment/Zoning Board of Appeals/Christine Monk (Ward 6)

Amended resolution resolving that the Flint City Council recommends the reappointment of Christine Monk (821 Frank Street, Flint MI 48504 - Ward 6), to the Zoning Board of Appeals for a three-year term, commencing September

1, 2011, and expiring September 1, 2014. [By way of background, Ms. Monk's term on the Zoning Board of Appeals expired in September 2011, but she has continued since that time to serve.] [Resolution amended to fix typographical error in first paragraph of resolution from "Board of Review" to "Zoning Board of Appeals."]

Sponsors: Sheldon A. Neeley

A motion was made by Councilperson Neeley, seconded by Councilperson Freeman, that this matter be Approved. The motion carried by the following vote:

Aye: 8 - Councilperson Poplar, Vice President Nolden, Councilperson Freeman, Councilperson Lawler, Councilperson Neeley, Councilperson Sarginson, President Kincaid and Councilperson Croom

Absent: 1 - Councilperson Weighill

130211 Appointment/Zoning Board of Appeals/Chris Zuwala (Ward 4)

Resolution resolving that the Flint City Council recommends the appointment of Chris Zuwala (3510 Whittier Avenue, Flint MI 48506 - Ward 4) to the Zoning Board of Appeals for a three-year term, expiring September 1, 2013. [NOTE: By way of background, Gloria Kelly's term as the 4th Ward representative expired in September 2007, but she continued to serve until resigning in January 2013.]

Sponsors: Joshua M. Freeman

A motion was made by Councilperson Freeman, seconded by Councilperson Poplar, that this matter be Approved. The motion carried by the following vote:

Aye: 8 - Councilperson Poplar, Vice President Nolden, Councilperson Freeman, Councilperson Lawler, Councilperson Neeley, Councilperson Sarginson, President Kincaid and Councilperson Croom

Absent: 1 - Councilperson Weighill

130212 Reappointment/Zoning Board of Appeals/Birdie V. Brooks (Ward 5)

Resolution resolving that the Flint City Council recommends the reappointment of Birdie V. Brooks (1307 Columbia Lane, Flint MI 48503 - Ward 5), to the Zoning Board of Appeals for the remainder of a three-year term, expiring September 1, 2014. [By way of background, Ms. Brook's term on the Zoning Board of Appeals expired in September 2011, but she has continued since that time to serve.]

Sponsors: Bernard Lawler

A motion was made by Councilperson Lawler, seconded by Councilperson Neeley, that this matter be Approved. The motion carried by the following vote:

Aye: 8 - Councilperson Poplar, Vice President Nolden, Councilperson Freeman, Councilperson Lawler, Councilperson Neeley, Councilperson Sarginson, President Kincaid and Councilperson Croom

Absent: 1 - Councilperson Weighill

130213

Resolution resolving that the Flint City Council recommends the reappointment of Marcia Braden (984 Barney Avenue, Flint MI 48503 - Ward 8), to the Zoning Board of Appeals for the remainder of a three-year term, expiring September 1, 2014. [By way of background, Ms. Braden's term on the Zoning Board of Appeals expired in September 2011, but she has continued since that time to serve.]

Sponsors: Michael J. Sarginson

A motion was made by Councilperson Sarginson, seconded by Councilperson Freeman, that this matter be Approved. The motion carried by the following vote:

Aye: 8 - Councilperson Poplar, Vice President Nolden, Councilperson Freeman, Councilperson Lawler, Councilperson Neeley, Councilperson Sarginson, President Kincaid and Councilperson Croom

Absent: 1 - Councilperson Weighill

130214 Reappointment/Zoning Board of Appeals/David C. Veasley (Ward 9)

Resolution resolving that the Flint City Council recommends the reappointment of David C. Veasley (2618 Pinetree Drive, Flint MI 48507 - Ward 9), to the Zoning Board of Appeals for the remainder of a three-year term, expiring September 1, 2015. [By way of background, Mr. Veasley's term on the Zoning Board of Appeals expired in September 2009, but he has continued since that time to serve.]

Sponsors: Scott Kincaid

A motion was made by Councilperson Freeman, seconded by Vice President Nolden, that this matter be Approved. The motion carried by the following vote:

Aye: 8 - Councilperson Poplar, Vice President Nolden, Councilperson Freeman, Councilperson Lawler, Councilperson Neeley, Councilperson Sarginson, President Kincaid and Councilperson Croom

Absent: 1 - Councilperson Weighill

130215 Appointment/Genesee County Land Bank Citizens' Advisory Council/Anthony Tucker (Ward 4)

Resolution resolving that the Flint City Council recommends the appointment of Anthony Tucker (2960 Henry Street, Flint MI 48506 - Ward 4) to the Genesee County Land Bank Citizens' Advisory Council for the remainder of a three-year term, expiring in January 2016. [NOTE: By way of background, Dan Anderson's term as the 4th Ward representative expired in January 2013.]

Sponsors: Joshua M. Freeman

A motion was made by Councilperson Freeman, seconded by Councilperson Poplar, that this matter be Approved. The motion carried by the following vote:

Aye: 8 - Councilperson Poplar, Vice President Nolden, Councilperson Freeman, Councilperson Lawler, Councilperson Neeley, Councilperson Sarginson, President Kincaid and Councilperson Croom

Absent: 1 - Councilperson Weighill

130218 Reappointment/Hurley Board of Hospital Managers/Philip W. Shaltz

Resolution resolving that the Flint City Council approves the reappointment of Philip W. Shaltz (14144 Moffet Drive, Fenton, MI 48430) to an additional five-year term on the (Hurley) Board of Hospital Managers, with such term to commence May 1, 2013, and expire April 30, 2018.

A motion was made by Councilperson Freeman, seconded by Vice President Nolden, that this matter be Approved. The motion carried by the following vote:

Aye: 8 - Councilperson Poplar, Vice President Nolden, Councilperson Freeman, Councilperson Lawler, Councilperson Neeley, Councilperson Sarginson, President Kincaid and Councilperson Croom

Absent: 1 - Councilperson Weighill

130219 Appointment/Hurley Board of Hospital Managers/Delrico Loyd

Resolution resolving that the Flint City Council approves the appointment of Delrico Loyd (2641 Westwood Parkway, Flint, MI 48507) to a five-year term on the (Hurley) Board of Hospital Managers, with such term to commence May 1, 2013, and expire April 30, 2018. [By way of background, Carl E. Mason was appointed in June 2008; his term expires April 30, 2013.]

Approved

Substituted

A motion was made by Councilperson Neeley, seconded by Councilperson Lawler, that this matter be POSTPONED for March 27, 2013. The motion failed by the following vote:

Aye: 3 - Councilperson Lawler, Councilperson Neeley and Councilperson Sarginson

No: 5 - Councilperson Poplar, Vice President Nolden, Councilperson Freeman, President Kincaid and Councilperson Croom

Absent: 1 - Councilperson Weighill

Substituted

A motion was made by Vice President Nolden, seconded by Councilperson Freeman, that this matter be Approved. The motion carried by the following vote:

Aye: 5 - Councilperson Poplar, Vice President Nolden, Councilperson Freeman, President Kincaid and Councilperson Croom

No: 3 - Councilperson Lawler, Councilperson Neeley and Councilperson Sarginson

Absent: 1 - Councilperson Weighill

130220 Appointment/Hurley Board of Hospital Managers/Donna Poplar

Resolution resolving that the Flint City Council approves the appointment of Donna Poplar (5277 Kimberly Woods Circle, Flint, MI 48504) to a five-year term

on the (Hurley) Board of Hospital Managers, with such term to commence May 1, 2013, and expire April 30, 2018. [By way of background, Frances Gilcreast was appointed in August 2008; her term expires April 30, 2013.]

Approved

Substituted

A motion was made by Councilperson Lawler, seconded by Councilperson Neeley, that this matter be POSTPONED for March 26, 2013. The motion carried by the following vote:

Aye: 7 - Councilperson Poplar, Vice President Nolden, Councilperson Lawler, Councilperson Neeley, Councilperson Sarginson, President Kincaid and Councilperson Croom

No: 1 - Councilperson Freeman

Absent: 1 - Councilperson Weighill

RESOLUTIONS

130165.1 Amended Resolution/Contract/City of Flint/Karegnondi Water Authority (KWA)

Amended resolution resolving that city officials are authorized to enter into a contract with Karegnondi Water Authority (KWA) to purchase fifteen (15) units of capacity, AND, resolving that the City Administrator is authorized to provide KWA information needed to administer the contract, and, with approval of the Chief Legal Officer, to make minor (non-material) modifications to the contract. [NOTE: For each unit of capacity that a member purchases, the buyer shall pay to the KWA a one-time fee of $32,300. Additionally, the buyer shall pay to the KWA not less than $32,300.00 per unit per year until such time as water is made available to the buyer. After water is made available, the buyer shall pay to the KWA an estimated amount NOT-TO-EXCEED $355,300.00 per unit per year until such time that the bonds are paid in full. If it is determined that the costs per unit will exceed $355,300.00, the buyer has a right to cancel the contract. Over the next 25 years, it is expected that continuing with Detroit will cost the region $2.1 billion, compared to $1.9 billion with a pipeline.] [NOTE: Contract not included.] [NOTE: Resolution amended from 18 to 15 units of capacity.]

A motion was made by Councilperson Neeley, seconded by Councilperson Freeman, that this matter be Amended. The motion carried by the following vote:

Aye: 5 - Vice President Nolden, Councilperson Freeman, Councilperson Lawler, Councilperson Neeley and Councilperson Sarginson

No: 3 - Councilperson Poplar, President Kincaid and Councilperson Croom

Absent: 1 - Councilperson Weighill

130165.2 Amended Resolution/Contract/City of Flint/Karegnondi Water Authority (KWA)

Amended resolution resolving that city officials are authorized to enter into a contract with Karegnondi Water Authority (KWA) to purchase sixteen (16) units

of capacity, AND, resolving that the City Administrator is authorized to provide KWA information needed to administer the contract, and, with approval of the Chief Legal Officer, to make minor (non-material) modifications to the contract. [NOTE: For each unit of capacity that a member purchases, the buyer shall pay to the KWA a one-time fee of $32,300. Additionally, the buyer shall pay to the KWA not less than $32,300.00 per unit per year until such time as water is made available to the buyer. After water is made available, the buyer shall pay to the KWA an estimated amount NOT-TO-EXCEED $355,300.00 per unit per year until such time that the bonds are paid in full. If it is determined that the costs per unit will exceed $355,300.00, the buyer has a right to cancel the contract. Over the next 25 years, it is expected that continuing with Detroit will cost the region $2.1 billion, compared to $1.9 billion with a pipeline.] [NOTE: Contract not included.] [NOTE: Resolution amended from 15 to 16 units of capacity.]

A motion was made by Councilperson Neeley, seconded by Councilperson Freeman, that this matter be Adopted. The motion carried by the following vote:

Aye: 7 - Councilperson Poplar, Councilperson Freeman, Councilperson Lawler, Councilperson Neeley, Councilperson Sarginson, President Kincaid and Councilperson Croom

No: 1 - Vice President Nolden

Absent: 1 - Councilperson Weighill

130216 Approval/The First Amendment & Restated Rules Governing the Downtown Development Authority (DDA) of the City of Flint

Resolution that the City of Flint hereby approves and The First Amendment & Restated Rules Governing the Downtown Development Authority (DDA) of the City of Flint, attached hereto. [NOTE: The City of Flint created the DDA, in accordance with Public Act 197 of 1975, as amended, and approved The Rules Governing the DDA in 1977. Public Act 197 has been amended and revised at various times since then, which required the proposed changes.] [NOTE: The First Amendment & Restated Rules Governing the Downtown Development Authority (DDA) of the City of Flint is attached.]

A motion was made by Councilperson Freeman, seconded by Vice President Nolden, that this matter be Amended. The motion carried by the following vote:

Aye: 8 - Councilperson Poplar, Vice President Nolden, Councilperson Freeman, Councilperson Lawler, Councilperson Neeley, Councilperson Sarginson, President Kincaid and Councilperson Croom

Absent: 1 - Councilperson Weighill

130216.1 Amended Resolution/Approval/The First Amendment & Restated Rules Governing the Downtown Development Authority (DDA) of the City of Flint

Amended resolution that the City of Flint hereby approves and The First Amendment & Restated Rules Governing the Downtown Development Authority (DDA) of the City of Flint, attached hereto. [NOTE: The City of Flint created the DDA, in accordance with Public Act 197 of 1975, as amended, and approved The Rules Governing the DDA in 1977. Public Act 197 has been

amended and revised at various times since then, which required the proposed changes.] [NOTE: The First Amendment & Restated Rules Governing the Downtown Development Authority (DDA) of the City of Flint is attached.] [Resolution amended for changes to rules.]

A motion was made by Councilperson Freeman, seconded by Vice President Nolden, that this matter be Adopted. The motion carried by the following vote:

Aye: 8 - Councilperson Poplar, Vice President Nolden, Councilperson Freeman, Councilperson Lawler, Councilperson Neeley, Councilperson Sarginson, President Kincaid and Councilperson Croom

Absent: 1 - Councilperson Weighill

RESOLUTIONS - MAY BE REFERRED FROM S.A.

130210 Resolution/City Council/Mayor Dayne Walling/Request for Appointment of Transition Advisory Board

Resolution resolving that Mayor Dayne Walling and the Flint City Council request and recommend to Gov. Rick Snyder that a receivership transition advisory board be appointed for the City of Flint under Public Act 436 no later than July 1, 2013. [NOTE: On December 1, 2011, Gov. Snyder appointed Michael K. Brown as Emergency Manager under Public Act 4 for the City of Flint, due in part to a consistent deficit in the general fund, the decline in pooled cash, budget issues and unfunded liabilities for post-employment benefits. Due to the suspension and subsequent repeal of Public Act 4, Gov. Snyder appointed Edward J. Kurtz as Emergency Financial Manager under Public Act 72 for the City of Flint, effective August 9, 2012. Both the Emergency Manager and the subsequently appointed Emergency Financial Manager were authorized by virtue of their appointment to "act for and in the place and stead of the governing body and the office of chief administrative officer of the City of Flint." On March 28, 2013, Public Act 436 will become effective and provides that an emergency financial manager appointed and serving under state law immediately prior to the effective date shall continue to serve as an emergency manager under Public Act 436. As an alternative to continuation of an emergency manager, and if the financial emergency has been rectified, Public Act 436 authorizes the governor to appoint a receivership transition advisory board, which serves at the pleasure of the governor and monitors the affairs of the local government until the receivership is terminated.]

No vote was taken on this amendment.

Amended

130210.1 Amended Resolution/City Council/Mayor Dayne Walling/Request for Appointment of Transition Advisory Board

Amended resolution resolving that Mayor Dayne Walling and the Flint City Council request and recommend to Gov. Rick Snyder that a receivership transition advisory board be appointed for the City of Flint under Public Act 436 no later than July 1, 2013. [NOTE: On December 1, 2011, Gov. Snyder appointed Michael K. Brown as Emergency Manager under Public Act 4 for the

City of Flint, due in part to a consistent deficit in the general fund, the decline in pooled cash, budget issues and unfunded liabilities for post-employment benefits. Due to the suspension and subsequent repeal of Public Act 4, Gov. Snyder appointed Edward J. Kurtz as Emergency Financial Manager under Public Act 72 for the City of Flint, effective August 9, 2012. Both the Emergency Manager and the subsequently appointed Emergency Financial Manager were authorized by virtue of their appointment to "act for and in the place and stead of the governing body and the office of chief administrative officer of the City of Flint." On March 28, 2013, Public Act 436 will become effective and provides that an emergency financial manager appointed and serving under state law immediately prior to the effective date shall continue to serve as an emergency manager under Public Act 436. As an alternative to continuation of an emergency manager, and if the financial emergency has been rectified, Public Act 436 authorizes the governor to appoint a receivership transition advisory board, which serves at the pleasure of the governor and monitors the affairs of the local government until the receivership is terminated.] [Six-page resolution amended for changes proposed by City Council, City Clerk and Mayor Dayne Walling.]

A motion was made by Councilperson Freeman, seconded by Councilperson Poplar, that this matter be Adopted. The motion carried by the following vote:

Aye: 8 - Councilperson Poplar, Vice President Nolden, Councilperson Freeman, Councilperson Lawler, Councilperson Neeley, Councilperson Sarginson, President Kincaid and Councilperson Croom

Absent: 1 - Councilperson Weighill

MEETING SCHEDULE

ADDITIONAL COUNCIL DISCUSSION

ADJOURNMENT

Having no further business, Council President Scott Kincaid adjourned the meeting at 8:59 p.m.

Respectfully transcribed and submitted,

Janell Johnson, Administrative Secretary to City Council

EM SUBMISSION NO.: 2013EM041

PRESENTED: 3-28-13

ADOPTED: 3-29-13

BY THE EMERGENCY MANAGER:

RESOLUTION TO PURCHASE CAPACITY FROM KAREGNONDI WATER AUTHORITY

The Karegnondi Water Authority (KWA) is a governmental consortium of cities and counties in southeastern Michigan that was created to build a water pipeline that will provide water from Lake Huron to interested communities in Sanilac, Lapeer, and Genesee counties. The incorporating bodies that created the KWA are Sanilac County, Lapeer County, Genesee County, the City of Flint, and the City of Lapeer.

The City of Flint is currently in a year to year contract with the City of Detroit for the purchase of water. A study was conducted that projected that staying with Detroit will cost the region $2.1 billion over the next 25 years. In contrast, if the region builds its own pipeline, the projected costs are $1.9 billion over the same period. After the initial 25 year period, the projected costs would be less then 25% of the projected water costs from Detroit.

In order to build the pipeline, the KWA needs commitment from its members regarding the capacity that each member will purchase in the pipeline. The KWA is allowed to withdraw 85 million gallons of water per day. Capacity is available to members in increments of 1 million gallons per day known as units. For each unit of capacity that a member purchases, the buyer shall pay to the KWA a one time fee of $32,300.00. Additionally, the buyer shall pay to the KWA not less then $32,300.00 per unit per year until such time as water is made available to the buyer. After water is made available, the buyer shall pay to the KWA an estimated amount not to exceed $355.300.00 per unit per year until such time that the bonds are paid in full. If it is determined that the costs per unit will exceed $355,300.00 the buyer has a right to cancel the contract.

The purchase of capacity along with the payment of other costs necessary to operate the pipeline gives the member a right to water for sale to its customers. The buyer has a right to resell capacity and water rights. Each party entering into a capacity contract shall also be entitled to appoint additional board members equal to the party's percentage share of the total capacity under contract.

It is in the long term best interests of the City of Flint to enter into a contract with the KWA to purchase up to eighteen (18) units of capacity.

IT IS RESOLVED that City officials are authorized to enter into a contract with KWA to purchase up to eighteen (18) units of capacity.

IT IS FURTHER RESOLVED that the City Administrator is authorized to provide KWA information needed to administer the contract and, with approval of the Chief Legal Officer, to make minor (non-material) modifications to the contract.

APPROVED AS TO FORM:

Peter M. Bade, City Attorney

APPROVED AS TO FINANCE:

For **Gerald Ambrose, Finance Director**

EM DISPOSITION:

ENACT 1 **FAIL** _____ **DATED** 3-29-13

Edward L. Kurtz, Emergency Manager

S:\P. Bade\EM2013\Resolutions\KWA.03.28.13.doc

Flint

Flint City Council approves resolution to buy water from Karegnondi, state approval still needed

[http://connect.mlive.com/staff/dadams1/index.html] By Dominic Adams | dadams5@mlive.com [http://connect.mlive.com/staff/dadams1/posts.html]
Follow on Twitter [http://www.twitter.com/dominicadams]
on March 25, 2013 at 10:46 PM, updated March 26, 2013 at 1:28 AM

FLINT, MI – Flint is one step closer to getting its water from Lake Huron as part of the Karegnondi Water Authority.

The vote, **approved 7-1 at the Flint City Council meeting Monday, March 25 [http://www.mlive.com/news/flint/index.ssf/2013/03/flint_city_council_again_delay.html]** , may have set in motion the end to Flint paying to get its water from Detroit.

Under the proposal, Flint would get 16 million gallons per day of raw water from Lake Huron, pipe it to Flint for treatment and then sell it to customers throughout the city. Another 2 million gallons per day would come from the Flint River and will be treated in Flint.

Mayor Dayne Walling said the Department of Environmental Quality must approve Flint's getting 2 million gallons per day from the Flint River.

Tuesday's meeting followed weeks of discussions and special meetings surrounding the resolution.

"We got there," Councilman Joshua Freeman said. "That's the important thing."

There were more than 50 people at Monday's meeting.

"Going with Karegnondi is the best decision. We have no opinion on the economics of the decision," said Rebecca Fedewa, Flint River Watershed Coalition executive director. "If we start drawing water out of the Flint River, we are at risk of having to start releasing water from our reservoirs."

Genesee County Drain Commissioner Jeff Wright said the decision must still be approved by a county water and waste advisory board. The KWA board will then be reconvened for final approval.

Wright said construction could start in May.

State treasury officials still must approve the city council's move because Flint has an emergency financial manager. All expenditures over $50,000 must be approved.

Genesee County Drain Commissioner Jeff Wright has said that Flint would pay roughly $6.4 million annually for water service if it joined the pipeline – a nearly $4 million savings on what it pays Detroit for water.

Walling previously said the **city would save $19 million over eight years [http://www.mlive.com/news/flint/index.ssf/2013/03/flint_city_council_delays_deci.html]** by getting water from the KWA.

"It's a historic night in the City of Flint," Walling said. "The savings will be less with the capacity level approved by city council because there will be increased treatment cost for the river water."

He said the DEQ told the city it needed to get 18 million gallons per day or there would have to be additional work done at Flint's water plant.

Flint's water plant and the Flint River is currently the backup for Flint and Genesee County, however, the plant only operates four times per year.

Councilman Bryant Nolden was the lone dissenting vote.

"It was a protest vote," Nolden said. "I knew they had enough votes. I just feel like the Flint River is our best option."

Karengnondi is the regional water authority that includes Genesee, Lapeer and Sanilac counties and the cities of Flint and Lapeer.

Flint is the second municipality, behind Genesee County, to officially decide to purchase raw water through the KWA. Lapeer city officials said they intend to purchase water, but an agreement has been finalized.

*Dominic Adams is a reporter for MLive-Flint Journal. Contact him at **dadams5@mlive.com** or 810-241-8803. Follow him on **Twitter [http://www.twitter.com/dominicadams]**, **Facebook [http://www.facebook.com/dominic.adams.1865]** or **Google+ [https://plus.google.com/103690672506808729911?rel=author]**.*

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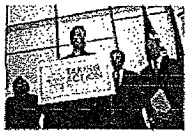
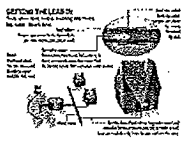


Price of Detroit water for Flint is $1.5 million a month, mayor says

[http://www.mlive.com/news/flint/index.ssf/2015/10/mayor_city_ad



Here's how that toxic lead gets into Flint water

[http://www.mlive.com/news/flint/index.ssf/2015/10/see_step_by_s

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FOR IMMEDIATE RELEASE

March 26, 2013

CONTACT: Jeff Wright

810-287-1925

What: Jeff Wright Statement on Flint City Council Approving Resolution to Join KWA.

When: March 26, 2013

Additional Info: Jeff Wright, CEO of the KWA, today praised the Flint City Council for voting to approve a resolution to officially have the City of Flint join the KWA and its' water line.

"I have said from the beginning that this decision must be made by Flint's City Council and Mayor," said Wright. "I appreciate the council voting the way they did, but even more than that, I am glad the residents of Flint were able to have their voices heard via their elected officials." The next step in the process will come with the KWA Board executing the contract for the City.

"The most important aspect from the vote is the fact that we as an Authority can move forward knowing Flint's intentions," said Wright.

Despite Emergency Manager Ed Kurtz publicly supporting the project, Wright had made a vote by council a condition of Flint joining the KWA so the residents would have their say.

"There is a basic tenet that government is best when it has local control. We saw that with the council vote. Nobody, whether they live in Flint, Grand Blanc, Davison, Fenton, or anywhere in Genesee County, should have these types of decisions made by people who live outside of their community," said Wright.

At the next Water and Waste Advisory Board meeting a vote will be taken to award a contract for construction of the intake portion of the water line. All bids were submitted to the board at their last meeting for review.

STATE OF MICHIGAN
DEPARTMENT OF TREASURY
LANSING

RICK SNYDER
GOVERNOR

ANDY DILLON
STATE TREASURER

Mr. Edward Kurtz
Emergency Manager
City of Flint
1101 South Saginaw Street
Flint, MI 48502

April 11, 2013

Dear Mr. Kurtz:

Thank you for your March 29, 2013 letter, which is attached for reference. As the Emergency Manager for the City of Flint ("Flint" or "City"), you have asked for my concurrence, pursuant to Public Act 436 of 2012, the Local Financial Stability and Choice Act, to authorize a contract in excess of $50,000.00 not subject to competitive bidding. This request was related to the City entering into an agreement with the Karegnondi Water Authority (KWA) for provision of raw water for the City.

In considering your request, I took note of the following facts in support of Flint joining KWA. First, there is widespread support in the City for this move, including the support of the Mayor, the City Council, and the Emergency Manager. Second, this move will provide a unique opportunity for the City and County to partner on an important project, which will hopefully lead to future regional collaboration. Third, the Department of Environmental Quality is supportive of the City participating in the KWA project. Finally, your representations that this deal will lead to substantial savings for the City over the coming decades, savings that are desperately needed to help with the turnaround of the City of Flint.

It is my understanding that the Detroit Water and Sewer Department is making a final best offer to Genesee County and the City of Flint next Monday, April 15, 2013. As such, this approval will be effective at 5 pm on April 16, 2013 after receiving written notice from the City that either no such offer was presented to the county and the City or that an offer was received and was rejected in good faith based upon specified objections.

For the reasons described above and subject to the conditions set forth herein, pursuant to Section 12 (3) of PA 436 of 2012, I am authorizing you to proceed with adopting the resolution and entering into a contract with KWA.

Sincerely,

Andy Dillon
State Treasurer

Flint

Flint council supports buying water from Lake Huron through KWA

[http://connect.mlive.com/staff/dadams1/index.html] By Dominic Adams | dadams5@mlive.com [http://connect.mlive.com/staff/dadams1/posts.html]
Follow on Twitter [http://www.twitter.com/dominicadams]
on March 25, 2013 at 7:17 PM, updated March 26, 2013 at 7:43 AM

FLINT, MI -- Flint residents may soon get their water from Lake Huron.

The Flint City Council voted 7-1 to get 16 million gallons per day from the Karegnondi Water Authority.

"This is about compromise," said Councilman Sheldon Neeley.

Neeley got support from Councilman Joshua Freeman, after the two were previously at odds about the amount the city should withdraw from Lake Huron.

Councilman Bryant Nolden was the lone "no" vote.

"It was a protest vote," Nolden said. "I just feel like the Flint River is our best option."

Genesee County Drain Commissioner said construction of the pipeline could start in May.

The city currently pays to get its water from Detroit.

State treasury officials still must approve the city council's move because Flint has an emergency financial manager. All expenditures over $50,000 must be approved.

*Dominic Adams is a reporter for MLive-Flint Journal. Contact him at **dadams5@mlive.com** or 810-241-8803. Follow him on **Twitter [http://www.twitter.com/dominicadams]** , **Facebook [http://www.facebook.com/dominic.adams.1865]** or **Google+ [https://plus.google.com/103690672506808729911?rel=author]** .*

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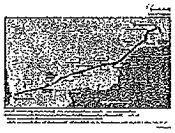
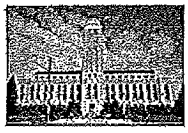


Enbridge can begin piping tar sands oil along Lake Ontario north shore

[http://www.mlive.com/news/index.ssf/2015/10/enbridge_can_beg



Former Detroit American Motors Corp. headquarters being auctioned; starting bid $500

[http://www.mlive.com/news/detroit/index.ssf/2015/10/former_detr

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Resolution: 130165.2

Presented: 3-11-13

Adopted: 3-25-13

AMENDED RESOLUTION TO PURCHASE CAPACITY FROM KAREGNONDI WATER AUTHORITY

BY THE MAYOR:

The Karegnondi Water Authority (KWA) is a governmental consortium of cities and counties in southeastern Michigan that was created to build a water pipeline that will provide water from Lake Huron to interested communities in Sanilac, Lapeer, and Genesee counties. The incorporating bodies that created the KWA are Sanilac County, Lapeer County, Genesee County, the City of Flint, and the City of Lapeer.

The City of Flint is currently in a year to year contract with the City of Detroit for the purchase of water. A study was conducted that projected that staying with Detroit will cost the region $2.1 billion over the next 25 years. In contrast, if the region builds its own pipeline, the projected costs are $1.9 billion over the same period. After the initial 25 year period, the projected costs would be less then 25% of the projected water costs from Detroit.

In order to build the pipeline, the KWA needs commitment from its members regarding the capacity that each member will purchase in the pipeline. The KWA is allowed to withdraw 85 million gallons of water per day. Capacity is available to members in increments of 1 million gallons per day known as units. For each unit of capacity that a member purchases, the buyer shall pay to the KWA a one time fee of $32,300.00. Additionally, the buyer shall pay to the KWA not less then $32,300.00 per unit per year until such time as water is made available to the buyer. After water is made available, the buyer shall pay to the KWA an estimated amount not to exceed $355,300.00 per unit per year until such time that the bonds are paid in full. If it is determined that the costs per unit will exceed $355,300.00 the buyer has a right to cancel the contract.

The purchase of capacity along with the payment of other costs necessary to operate the pipeline gives the member a right to water for sale to its customers. The buyer has a right to resell capacity and water rights. Each party entering into a capacity contract shall also be entitled to appoint additional board members equal to the party's percentage share of the total capacity under contract.

The City of Flint has decided that it is in its long term best interests to enter into a contract with the KWA to purchase SIXTEEN (16) units of capacity, plus TWO (2) units from the Flint River.

IT IS RESOLVED that City officials are authorized to enter into a contract with KWA to purchase SIXTEEN (16) units of capacity, plus TWO (2) units from the Flint River.

IT IS FURTHER RESOLVED that the City Administrator is authorized to provide KWA information needed to administer the contract and, with approval of the Chief Legal Officer, to make minor (non-material) modifications to the contract.

APPROVED AS TO FORM:

Peter M. Bade
Chief Legal Officer

APPROVED AS TO FINANCE:

Gerald Ambrose
Finance Director

APPROVED BY MAYOR:

Dayne Walling
Mayor

APPROVED BY CITY COUNCIL
ON: March 25, 2013

Inez Brown
Clerk, City of Flint

APPROVED BY
CITY COUNCIL
MAR 25 2013

S:\JP\Ordinances and Resos\KWA.03.08.13.doc

From: Anderson, Madhu (DEQ)
Sent: Thursday, October 22, 2015 6:14 PM
To: Davis, Matthew (Matt)
Cc: erothste@grg-ltd.com; Chris Kolb; reynolds@mottchc.org; VanSickle, Michele (GOV); Baird, Richard (GOV); Ken Sikkema
Subject: RE: Task Force - Email 8: EPA Safe Drinking Water Task Force
Attachments: EPA News Release No. OPA160.pdf

Matt - I will check into documents from MDHHS further tomorrow. If you have some specific documents in mind, would you pass that along? Hopefully we will be able to get those to you as well. And you are welcome.

All - Here is one more piece of information regarding the EPA's establishment of their own task force to provide technical assistance to Flint and Michigan's DEQ.

Madhu

-----Original Message-----
From: Davis, Matthew (Matt) [mailto:mattdav@med.umich.edu]
Sent: Thursday, October 22, 2015 5:27 PM
To: Anderson, Madhu (DEQ); Ken Sikkema
Cc: erothste@grg-ltd.com; Chris Kolb; reynolds@mottchc.org; VanSickle, Michele (GOV); Baird, Richard (GOV)
Subject: RE: Task Force - Email 7: Documents related to KWA

Madhu -

Let me add my thanks to Ken's.

Did you happen to find out from Nick/MDHHS whether there is s similar set of documents presently available from MDHHS?

Thanks,
Matt

From: Anderson, Madhu (DEQ) [AndersonM30@michigan.gov]
Sent: Thursday, October 22, 2015 5:14 PM
To: Ken Sikkema
Cc: Davis, Matthew (Matt); erothste@grg-ltd.com; Chris Kolb; reynolds@mottchc.org; VanSickle, Michele (GOV); Baird, Richard (GOV)
Subject: RE: Task Force - Email 7: Documents related to KWA

You are welcome Ken. I know it is a lot of material….please feel free to let me know what else you would like to see.

[cid:image001.png@01CDA7B6.5323BD30]

From: Ken Sikkema [mailto:ksikkema@pscinc.com]
Sent: Thursday, October 22, 2015 5:12 PM
To: Anderson, Madhu (DEQ)

Cc: Davis, Matthew (Matt); erothste@grg-ltd.com; Chris Kolb; reynolds@mottchc.org; VanSickle, Michele (GOV); Baird, Richard (GOV)
Subject: Re: Task Force - Email 7: Documents related to KWA

Madhu:

Thank you for providing all of this...I know it has taken a great deal of effort, and it is much appreciated.

Ken

On Thursday, October 22, 2015, Anderson, Madhu (DEQ) <AndersonM30@michigan.gov<mailto:AndersonM30@michigan.gov>> wrote:
All – this last email contains information on the decisions regarding the KWA by Flint.

[cid:image001.png@01CDA7B6.5323BD30]
Madhu R. Anderson
Deputy Director, Economic & Strategic Initiatives
- 517 284 6702 | 517 290 9653
- andersonm30@michigan.gov

[http://inside.michigan.gov/deq/wr/deqforms/DEQ%20Forms/DEQ%20Logo.JPG]

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Ken Sikkema
Senior Policy Fellow
Public Sector Consultants
PH: 517-484-4954
ksikkema@pscinc.com<mailto:ksikkema@pscinc.com>

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Electronic Mail is not secure, may not be read every day, and should not be used for urgent or sensitive issues

United States Environmental Protection Agency
Region 5
77 West Jackson Blvd.
Chicago, Illinois 60604
Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin

EPA **Environmental** NEWS RELEASE

Contact Information: Anne Rowan, rowan.anne@epa.gov 312-353-9391

For Immediate Release No. 15-OPA160

EPA Establishes Safe Drinking Water Task Force to Provide Technical Expertise to MDEQ and City of Flint

Task Force providing technical assistance on reconnecting the Flint drinking water system to a new source

CHICAGO (October 16, 2015) - Today U.S. Environmental Protection Agency Region 5 Administrator Susan Hedman established the Flint Safe Drinking Water Task Force to provide the Agency's technical expertise through regular conversations with designated officials from Michigan Department of Environmental Quality (MDEQ) and the City of Flint. The Task Force will be led by the Region 5 Deputy Regional Administrator and will assist with developing and implementing a plan to secure water quality, including measures to optimize corrosion control. Task Force members will be available to consult with MDEQ and the City of Flint on site in Flint. The Task Force will also coordinate as necessary with federal, state and local public health agencies to assist with protection of public health.

Specifically, the Task Force will provide technical assistance to the MDEQ and the City of Flint to reconnect the Flint system to a new source of drinking water (to be supplied by the Great Lakes Water Authority) and to optimize corrosion control for the Flint system, starting in October 2015. The Task Force will also provide technical assistance to the MDEQ and the City of Flint, as needed, in advance of and following connection of the Flint water system to a new source of drinking water (to be supplied by the Karegnondi Water Authority) and to optimize corrosion control for the Flint system, starting in 2016.

"EPA is committed to working with our state and local partners to ensure a safe and reliable drinking water supply for the residents of Flint, Michigan," Hedman said. "The formation of this task force continues our commitment to providing technical assistance to the City of Flint and the State of Michigan."

The Task Force will be comprised of scientists and technical experts from the EPA Region 5 office in Chicago, the National Risk Management Research Lab in Cincinnati and the EPA drinking water program. In addition, EPA will ask the Governor to designate a MDEQ official and the Mayor of Flint to designate a city official, to serve as points of contact for the Task Force.

From: Larry Reynolds <notifications@ohm.basecamphq.com>
Sent: Tuesday, November 03, 2015 12:38 PM
To: Baird, Richard (GOV)
Subject: [Flint Water Advisory Task Force] notes to timeline

Reply ABOVE THIS LINE to add a comment to this message

Project: Flint Water Advisory Task Force
Company: Flint Water

Larry Reynolds posted a new message:
notes to timeline

Friday,Sept 11.Dr. Mona Hanna -Attisha contacted Dr. Lawrence Reynolds with concerns about children's blood levels in light of Mark Edwards, PhD findings. Dr. Mona convened the Hurley Medical Center Research Team. Dr. Reynolds contacted the MDCH Childhood Lead Prevention Program by phone and left data request for Flint EBLLs. Dr. Reynolds also contacted MDEQ staffer who stated MDEQ was waiting for a letter from MDCH ,REGARDING HEALTH ISSUES AND ACTION.

Wednesday ,September 15-DHHS graph for 0-16 yoa children with Flint mailing addresses and ELLs to Dr. Reynolds was discussed with two GCHD Board of Health (GCBOH)members (chair Kay Doer and member Dr. Laura Carravallah)and management staff ~~Mark Valacak--Director , Dr. Gary Johnson~~ Medical Director , and John Henry – Environmental Hygiene- in an informal meeting. The GCBOH chair read the mission of the GCHD aloud.

GCHD Director's response was that staff and resources to access MCIR data registry for lead levels were not available. A new software had been installed and the PDF format required manual extraction for a report to get ELLs ,ages, and addresses. Also, he said it was the City of Flint Department of Public Works's responsibility to issue a health advisory , not the GCHD.

Monday ,September 21- Greater Flint Health Coalition VIEWED PRESENTATION BY Dr. Mona H-A and passed a resolution to requesting a health advisory for the city of Flint. At noon , members of the GFHC met with the mayor-Walling , administrator-Henderson , and the DPW director-Crump , requesting action on the resolutions , the HMC research , and the Virginia Tech research. The response by the administrator was

Flint could not change water sources because of cost .Also, the water leaving the plant meets MDEQ standards

Tuesday ,September 22- Genesee County Medical Society (GCMS) passed a resolution for the same.

Thursday , September 24-In the absence of a response by the City Administration or the Genesee County Health Department, a press conference was called by HMC and GFHC members to advise the community of a health emergency with a presentation of the HMC research by Dr. Mona H-A , followed by remarks by the GCHD Director , Mark Valacak. The city administrator attended. The state continued to dispute the findings.

This message was sent to Chris Kolb, Dana Pulver, Deborah Higgins, Eric Rothstein, Ken Sikkema, Larry Reynolds, Matthew Davis, Michele VanSickle, Rich Baird, and Tracey Poteat.

Stop receiving emails when comments are posted to this message. Prefer plain text emails?

Delivered by Basecamp

From: Lyon, Nick (DHHS)
Sent: Friday, December 04, 2015 10:29 AM
To: Baird, Richard (GOV)
Subject: FW: Call with Matt Davis

From: Moran, Susan (DHHS)
Sent: Thursday, December 03, 2015 4:42 PM
To: Lyon, Nick (DHHS) <LyonN2@michigan.gov>; Becker, Timothy (DHHS) <beckert1@michigan.gov>; Lasher, Geralyn (DHHS) <lasherg@michigan.gov>
Cc: Grijalva, Nancy (DHHS) <GrijalvaN@michigan.gov>; Wells, Eden (DHHS) <WellsE3@michigan.gov>; Dykema, Linda D. (DHHS) <DykemaL@michigan.gov>
Subject: Call with Matt Davis

We had a great call with Matt, overall seemed very supportive of our recent efforts and intends to modify the letter to the Governor based on actions taken by MDHHS.

Highlights from our discussion:

- VERY PLEASED with today's release of information regarding lead testing
- Matt supportive of our ICS-like structure (with project managed by Division of Environmental Health) – very much in line with centralized coordination and communication
- Agrees with our proposal to use Medicaid population denominator as proxy for measuring progress in accelerating lead testing efforts
- VERY pleased with the efforts to partner with, engage Medicaid Health Plans in the public health response
- Had some suggestions for using MCIR as a tool to link children and their school districts to determine potential lead exposure
- Agrees there is lack of consensus among community providers about testing infants, but Eden/Sue/Matt agree that there must be a risk assessment for lead exposure from water, infants are at highest risk for adverse effects.

Please let me know if you have questions.

From: Anderson, Madhu (DEQ)
Sent: Wednesday, December 09, 2015 3:57 PM
To: lawrenceR@mottchc.org
Cc: Chris Kolb; Ken Sikkema (ksikkema@pscinc.com); mattdav@med.umich.edu; erothste@grg-ltd.com; Wyant, Dan (DEQ); Baird, Richard (GOV); lrey52@gmail.com
Subject: Requested Emails
Attachments: DWSD back up agreement; FW: Proposed Water Monitoring - City of Flint; Re: Proposed Water Monitoring - City of Flint; RE: Proposed Water Monitoring - City of Flint; SCAN1458.pdf; Re: Proposed Water Monitoring - City of Flint; Proposed Water Monitoring - City of Flint

Dr. Lawrence, I have attached to this correspondence all emails and replies exchanged between Mike Glasgow and Flint Water Department/Staff with Michigan DEQ staff between the dates of April 13 and April 30, 2014, as requested.

I apologize for the length of time it has taken to get these to you. Please let me know if we can provide any other information.

Madhu R. Anderson
Deputy Director, Economic and Strategic Initiatives
☎ 517 284 6702 | 517 290 9653
✉ andersonm30@michigan.gov

From: Daugherty Johnson <djohnson@cityofflint.com>
Sent: Thursday, April 24, 2014 12:03 PM
Subject: DWSD back up agreement

Hello Steve and Mike. As you are aware, the City has undergone extensive upgrades to our Water Treatment Plant and it's associated facilities. Our intentions and efforts have been to operate our facility as the primary drinking water source for the City of Flint. Through consultation with your office and our engineering firm we've developed a system of redundant electrical systems, treatment processes and adequate finished water storage to negate the need for a signed back up agreement with DWSD due to their termination of our contract. Upon inspection of these facilities would you convey your concurrence that there is no regulatory requirement for us to sign a back up agreement with DWSD.

Thank you
Daugherty Johnson
Utilities Administrator
City of Flint

From: Rosenthal, Adam (DEQ)
Sent: Wednesday, April 16, 2014 1:01 PM
Subject: FW: Proposed Water Monitoring - City of Flint

Adam Rosenthal, EQA
MDEQ – Office of Drinking Water and Municipal Assistance
Lansing District – Constitution Hall 1SW
PO Box 30242
Lansing, MI 48909
517-284-6644
fax: 517-241-3571

From: Michael Glasgow [mailto:mglasgow@cityofflint.com]
Sent: Wednesday, April 16, 2014 12:59 PM
To: Rosenthal, Adam (DEQ)
Subject: Proposed Water Monitoring - City of Flint

Adam,

Good afternoon, I am contacting you in regards to possible changes in our monitoring for our change to full time operation out of the Flint river. I am expecting changes to our Water Quality Monitoring parameters, and possibly our DBP and lead & copper monitoring plan. Also, I am wondering about our MOR required testing. I know you have probably been in contact with Howard Croft, however I have not seen anything except the notes you or Prysby made on the last page of our 2014 monitoring schedule "that things were subject to change". Any information would be greatly appreciated, because it looks as if we will be starting the plant up tomorrow and are being pushed to start distributing water as soon as possible. As the acting F-1, I would like to make sure we are monitoring, reporting and meeting our requirements before I give the O.K to start distributing water.

Thanks,

Mike Glasgow
Laboratory & Water Quality Supervisor
City of Flint Water Plant
(810)787-6537 ext. 3512

From: Michael Glasgow [mglasgow@cityofflint.com]
Sent: Thursday, April 17, 2014 11:05 AM
Subject: Re: Proposed Water Monitoring - City of Flint

Adam,

Thank you for the quick response. I assumed there would be dramatic changes to our monitoring. I have people above me making plans to distribute water ASAP. I was reluctant before, but after looking at the monitoring schedule and our current staffing, I do not anticipate giving the OK to begin sending water out anytime soon. If water is distributed from this plant in the next couple weeks, it will be against my direction. I need time to adequately train additional staff and to update our monitoring plans before I will feel we are ready. I will reiterate this to management above me, but they seem to have their own agenda.

Thank you,

Mike Glasgow
Laboratory & Water Quality Supervisor
City of Flint Water Plant

On Wed, Apr 16, 2014 at 2:49 PM, Rosenthal, Adam (DEQ) <ROSENTHALA@michigan.gov> wrote:

Mike, we have been working on a revised schedule for the City of Flint, which is being sent out today in response to your email indicating the plant startup. Mike Prysby must have been the one in contact with Mr. Croft, not sure what was discussed. Mike is out and will return 4/21/14. Until then our supervisor, Steve Bush, can be contacted at 517-643-2314 for plant operation questions.

see attached schedule.

Adam Rosenthal, EQA

MDEQ – Office of Drinking Water and Municipal Assistance

Lansing District – Constitution Hall 1SW

PO Box 30242

Lansing, MI 48909

517-284-6644

fax: 517-241-3571

From: Michael Glasgow [mailto:mglasgow@cityofflint.com]
Sent: Wednesday, April 16, 2014 12:59 PM
To: Rosenthal, Adam (DEQ)
Subject: Proposed Water Monitoring - City of Flint

Adam,

Good afternoon, I am contacting you in regards to possible changes in our monitoring for our change to full time operation out of the Flint river. I am expecting changes to our Water Quality Monitoring parameters, and possibly our DBP and lead & copper monitoring plan. Also, I am wondering about our MOR required testing. I know you have probably been in contact with Howard Croft, however I have not seen anything except the notes you or Prysby made on the last page of our 2014 monitoring schedule "that things were subject to change". Any information would be greatly appreciated, because it looks as if we will be starting the plant up tomorrow and are being pushed to start distributing water as soon as possible. As the acting F-1, I would like to make sure we are monitoring, reporting and meeting our requirements before I give the O.K to start distributing water.

Thanks,

Mike Glasgow

Laboratory & Water Quality Supervisor

City of Flint Water Plant

(810)787-6537 ext. 3512

From: Rosenthal, Adam (DEQ)
Sent: Wednesday, April 16, 2014 2:50 PM
Subject: RE: Proposed Water Monitoring - City of Flint
Attachments: 2014 Flint MS startup.doc; 2014 Flint revised MS-SBrev.doc; Flint MS Enclosure.doc

Mike, we have been working on a revised schedule for the City of Flint, which is being sent out today in response to your email indicating the plant startup. Mike Prysby must have been the one in contact with Mr. Croft, not sure what was discussed. Mike is out and will return 4/21/14. Until then our supervisor, Steve Bush, can be contacted at 517-643-2314 for plant operation questions.

see attached schedule.

Adam Rosenthal, EQA
MDEQ – Office of Drinking Water and Municipal Assistance
Lansing District – Constitution Hall 1SW
PO Box 30242
Lansing, MI 48909
517-284-6644
fax: 517-241-3571

From: Michael Glasgow [mailto:mglasgow@cityofflint.com]
Sent: Wednesday, April 16, 2014 12:59 PM
To: Rosenthal, Adam (DEQ)
Subject: Proposed Water Monitoring - City of Flint

Adam,

Good afternoon, I am contacting you in regards to possible changes in our monitoring for our change to full time operation out of the Flint river. I am expecting changes to our Water Quality Monitoring parameters, and possibly our DBP and lead & copper monitoring plan. Also, I am wondering about our MOR required testing. I know you have probably been in contact with Howard Croft, however I have not seen anything except the notes you or Prysby made on the last page of our 2014 monitoring schedule "that things were subject to change". Any information would be greatly appreciated, because it looks as if we will be starting the plant up tomorrow and are being pushed to start distributing water as soon as possible. As the acting F-1, I would like to make sure we are monitoring, reporting and meeting our requirements before I give the O.K to start distributing water.

Thanks,

Mike Glasgow
Laboratory & Water Quality Supervisor
City of Flint Water Plant
(810)787-6537 ext. 3512

2014 Monitoring Schedule

FLINT, CITY OF

WSSN: 02310

Collect samples early in the monitoring period. This schedule reflects your expected routine monitoring and is subject to change. To receive credit for monitoring, include the **WSSN, Site Code**, and **County** on your request for analysis form. Collect Bacteriological and Automated Partial Chemistry samples close to the shipping time and send overnight delivery. Send all sample results to your Department of Environmental Quality (DEQ) district office unless you use the DEQ laboratory. Test codes, sample units, and costs are listed to help you complete the DEQ laboratory form. Prices are subject to change without notice. The DEQ laboratory is closed on state holidays.

Location: Plant Tap

Collect these samples at the entry point to the distribution system (after treatment, if applicable.)

Sample Type	# Samples/ Frequency	Collect Before	Site Code	Fee	Unit Number	Test Code
Automated Partial Chemistry	This DEQ lab scan includes nitrate, nitrite, fluoride, and sodium whose monitoring frequency requirements differ from one another. Before requesting analyses from a laboratory other than the DEQ laboratory, check with your DEQ district staff for the specific monitoring requirements.					
	1/3 months	**Quarterly**	TP001	$18.00	32	R
Volatile Organic Compounds	1/3 months	**Quarterly**	TP001	$100.00	36VO	CXVO
Complete Metals	1/36 months	**09/30/2014**	TP001	$102.00	36ME	CMET2
Arsenic	1/3 months	**Quarterly**	TP001	$18.00	36ME	CAS
Cyanide	1/3 months	**Quarterly**	TP001	$25.00	36CNa	CCN
SOC – Pesticides	1/3 months	**Quarterly**	TP001	$125.00	36PT	CXPT
SOC – Herbicides	1/3 months	**Quarterly**	TP001	$120.00	36HB	CXHB
SOC – Carbamates	1/3 months	**Quarterly**	TP001	$120.00	36LP	CXLP
Gross Alpha (Radiological)	1/3 months	**Quarterly**	TP001	Not performed at the DEQ Laboratory. A list of certified labs is at www.michigan.gov/DEQ. Select Water, Drinking Water, Community Water Supply, then Certified Labs under Programs and Activities.		
Radium 226 & Radium 228	1/3 months	**Quarterly**	TP001			
Water Quality Parameters	Bi-weekly	**Every 2 Weeks**	TP001	Various	Various	Various
Total Organic Carbon (TOC)	Pair/Monthly	**Monthly**	TP001	$35.00	36TO	CTOC
	Monitor for TOC in the source water before any treatment at the same time as monitoring for TOC in the treated water. These samples (source water and treated water) are referred to as "paired samples." Collect the treated water sample not later than the point of combined filter effluent turbidity monitoring and representative of treated water.					
Expanded SOCs						
Dalapon & Haloacetic Acids	1/12 months	**Between 04/01 and 09/30/2014**	TP001	$130.00	36HA	CXHA
Diquate	1/12 months	**Between 04/01 and 09/30/2014**	TP001	$150.00	36DQ	CXDQ
Endothall	1/12 months	**Between 04/01 and 09/30/2014**	TP001	$150.00	36EN	CXEN
EDB & DBCP	1/12 months	**Between 04/01 and 09/30/2014**	TP001	$70.00	36VO	CXEV

2014 Monitoring Schedule

FLINT, CITY OF

WSSN: 02310

Collect samples early in the monitoring period. This schedule reflects your expected routine monitoring and is subject to change. To receive credit for monitoring, include the **WSSN, Site Code**, and **County** on your request for analysis form. Collect Bacteriological and Automated Partial Chemistry samples close to the shipping time and send overnight delivery. Send all sample results to your Department of Environmental Quality (DEQ) district office unless you use the DEQ laboratory. Test codes, sample units, and costs are listed to help you complete the DEQ laboratory form. Prices are subject to change without notice. The DEQ laboratory is closed on state holidays.

Location: Distribution System

Sample Type	Collect Samples According to the ...	# Samples/ Frequency	Collect	Site Code	Fee	Unit Number	Test Code
Bacteriological – coliforms	TCR Sampling Site Plan	100/Monthly	**Monthly**	DIST	$16.00	30	BPTC
Chlorine Residual	DBP Monitoring Plan	Measure the residual disinfectant level at the same point and at the same time as the bacteriological sample and report the average to the DEQ.					
Lead Copper for Corrosion Control	Lead and Copper Sampling Pool	100/6 months	**Between 07/01 and 12/31/2014**	DIST	$26.00	36CC	CCUB
Water Quality Parameters	Representative Sites	25/Quarterly	**Quarterly**	DIST	Various	Various	Various
Total Trihalomethanes	DBP Monitoring Plan	8/3 months	**During February, May, August and November 2014**	See DBP Monitoring Plan	$65.00	36VO	CXTM
Haloacetic Acids		8/3 months	**During February, May, August and November 2014**	See DBP Monitoring Plan	$130.00	36HA	CXHA

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING DISTRICT OFFICE

RICK SNYDER
GOVERNOR

DAN WYANT
DIRECTOR

April 16, 2014

Mr. Brent Wright
City Of Flint – D.P.W
Flint Water Plant
4500 North Dort Highway
Flint, Michigan 48505

WSSN: 02310

Dear Mr. Wright:

SUBJECT: Revised Drinking Water Monitoring Schedule – 2014
Monthly Operation Reports
Siting Plans and Record Keeping

Monitoring Schedule:

Enclosed is your revised Drinking Water Monitoring Schedule for calendar year 2014 outlining the minimum requirements for your public water supply. Your schedule has been revised based on the City's intent to change the source of its drinking water from the Detroit Water and Sewerage Department to treatment of the Flint River utilizing the City's Water Treatment Plant. Collect samples early in the monitoring period of the year indicated on the schedule. If you use a private laboratory you are required to report the results to us within the first ten days of the month following the month that you received the results. To receive credit for monitoring, the **"WSSN"** (water supply serial number), the **"Site Code,"** and **"County"** must appear on the sample result. Bottles will NOT be mailed automatically. If you use the Department of Environmental Quality Laboratory, you can order bottles by calling 517-335-8184. Be certain of the United States Environmental Protection Agency sampling and analysis method requirements for hold times.

Please note that both distribution and entry point to the distribution system monitoring will increase upon plant startup.

Monthly Operation Report (MOR) Requirements:

The City shall submit MORs as required under Administrative Rule 1502 (R325.11502). In addition to plant operational data collected and as noted in the attached schedule, the City of Flint will be required to collect Total Organic Compounds (TOC) samples from the source and finish water on a monthly basis. You will also be required to collect Water Quality Parameters (WQPs) at your entry point every 2 weeks. The City must also demonstrate adequate contact time (CT) for disinfection in accordance with Administrative Rule 1505a (R325.11505a).

Disinfection By-Product Sample Siting Plans:

The City of Flint must return to routine standard monitoring of disinfection by-products, and a revised Disinfection & Disinfectants By-Product (DDBP) plan must be submitted, which identifies 4 additional sites, 8 sites in total, for routine quarterly monitoring. These sites must be selected in accordance with the Stage 2 DDBP Rule and supporting documentation must be submitted with the plan for review and approval by this office prior to monitoring.

Lead and Copper Monitoring Requirements and Site Sample Pool

This change in source also increases your distribution system monitoring for WQPs to 25 samples per 6 months and 100 sample locations for Lead & Copper for 2 consecutive 6 month rounds of monitoring. The City will need to expand its current sample site pool in accordance with the requirements of Administrative Rule 710a (R325.10710a). A list of the proposed sample site pool locations, including each site's Tier, sample category, service material, and building plumbing material, shall be submitted to this office for review and approval.

Record Keeping:

The City shall maintain all monitoring records in accordance with all applicable requirements under the Administrative Rules including Rule 720a (R325.10720a), Rule 1506 (R325.11506), and Rule 1507 (R325.11507).

The Michigan Safe Drinking Water Act requires certain reports to be submitted to this office each year. Please remember that cross connection reports and annual pumpage reports are due by March 31, and the **Consumer Confidence Report** is due by July 1.

Also enclosed is the document "2014 Monitoring and Reporting Requirements." This provides additional details about monitoring and reporting requirements. If you have any questions, please contact us by telephone or e-mail using the information below.

Michael F. Prysby, P.E., District Engineer
Lansing District Office
Office of Drinking Water and
Municipal Assistance
517-290-8817

Adam Rosenthal, EQA
Lansing District Office
Office of Drinking Water and
Municipal Assistance
517-284-6644

Enclosure

cc/encl: Mr. Robert Bisnick, City Of Flint
Genesee Co. Health Dept.

2014 Monitoring and Reporting Requirements

Please Monitor Early: Collect samples early in the monitoring period (month, quarter, year) of the year indicated on the schedule. Bacteriological and partial chemistry samples should be collected close to the shipping time and sent overnight delivery to assure sample holding times are not exceeded (30 and 48 hour hold times respectively). We also recommend avoiding mailing bacteriological samples immediately preceding or following a holiday because samples tend to exceed the 30 hour hold time. When this occurs, a repeat sample must be collected as soon as possible upon notification.

If you use a private laboratory please report the results to us within the first ten days of the month following the month that you received the results. A list of certified laboratories is available on request. If samples are not collected as indicated on your monitoring schedule, you will incur a monitoring violation and may also be subject to a fine. For information on the fines policy, visit http://michigan.gov/deq. Click on Water, Drinking Water, Community Water Supply, and Administrative Fines (under Laws and Rules).

To receive credit for monitoring, you must include the **"WSSN"** (water supply serial number), the **"Site Code,"** and the **"County"** when you submit samples for analysis. Site codes are listed on your monitoring schedule.

Special Instructions If You Use The DEQ Laboratory: Bottles will NOT be mailed automatically. To order bottles, call the DEQ Laboratory at 517-335-8184 or download the form EQP 2301 *Requisition for Water Sample Units* from www.michigan.gov/deq. Click on Key Topics, Laboratory Services, Drinking Water, Obtaining The Necessary Sampling Units, and 'test list'. Please note that the DEQ laboratory is closed on most state holidays. The DEQ laboratory prices are subject to change without notice.

Special Instructions For Automated Partial Chemistry, VOC and TTHM Samples: These sample bottles must be cooled and preserved during shipment to the laboratory. If you use the DEQ laboratory, you will receive the ice pack, acid dropper (if necessary) and small cooler when you request the bottles. Samples must be preserved correctly to be used for compliance purposes. To avoid resampling follow instructions contained with the sample bottle. If you would like more information, contact the DEQ lab, at 517-335-8184, or contact this office.

Cyanide: Previously, supplies that chlorinated the water were waived from monitoring for cyanide. The U.S. EPA now requires all supplies to sample the entry point for cyanide.

UCMR3 Monitoring: You may have monitoring requirements in 2014 under the third Unregulated Contaminant Monitoring Rule (UCMR3). The U.S. EPA will contact you directly if your water supply is required to monitor in 2014. A list of laboratories certified to analyze the samples collected for UCMR3 is available at http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/ucmr3/upload/lablist.pdf. Contact the U.S. EPA with questions.

Reminder if Lead and Copper Monitoring Due This Year: You must provide individual lead tap results to people who receive water from sites that were sampled, even if lead was not detected, within 30 days of learning of results. You must also send us a certification that you met all the delivery requirements along with a sample copy of the customer notice within 3 months after the end of the monitoring period. Water supplies that failed to distribute the Consumer Notice of Lead Results must include the following

statement in their CCR, "During the year, we failed to provide lead results to persons served at the sites that were tested as required by the Lead and Copper Rule." To download the *Lead and Copper Report and Consumer Notice of Lead Result Certificate* in Microsoft Word or PDF format, visit www.michigan.gov/deq. Click on Water, Drinking Water, Community Water Supply, and Reporting Forms (under Manuals, Forms & Brochures).

Annual Reports: Act 399 requires certain reports to be submitted to this office each year.

- The **Cross Connection Report**, due by March 31, describes the status of your local cross connection control program. Manufactured housing communities are exempt from this requirements until 2016.

  Each year, water supplies must submit a report regardless of whether a formal program has been implemented. If cross connections do not exist in your water system, indicate so on the report. Download the Cross Connection Report form from http://michigan.gov/deq. Click on Water, Drinking Water, Community Water Supply, Reporting Forms (under Manuals, Forms & Brochures). Instructions are included with the form.

- The **Annual Pumpage/Usage Report**, due by March 31, is required of water supplies that do not submit monthly operation reports.

  A summary of water pumpage and water use must be submitted by each water supply that does not submit a monthly operation report. To manage our natural resources, pumpage data are compiled to determine water use demands in Michigan. Download the Annual Pumpage/Usage Report form from http://michigan.gov/deq. Click on Water, Drinking Water, Community Water Supply, Reporting Forms (under Manuals, Forms & Brochures). Please be sure to indicate the appropriate units on the report (e.g. million gallons or gallons).

- The **Consumer Confidence Report**, due by July 1 to your customers, to your local health department and to this office.

  Electronic delivery methods may be used to distribute the CCR to bill-paying customers, provided they are direct. For more information on e-delivery, visit www.michigan.gov/deq. Click on Water, Drinking Water, Community Water Supply, Consumer Confidence Report Rule (under Laws and Rules).

Prysby, Mike (DEQ)

From: Daugherty Johnson <djohnson@cityofflint.com>
Sent: Thursday, April 24, 2014 12:03 PM
To: Prysby, Mike (DEQ); Busch, Stephen (DEQ); Howard Croft
Subject: DWSD back up agreement

Follow Up Flag: Flag for follow up
Flag Status: Flagged

Hello Steve and Mike. As you are aware, the City has undergone extensive upgrades to our Water Treatment Plant and it's associated facilities. Our intentions and efforts have been to operate our facility as the primary drinking water source for the City of Flint. Through consultation with your office and our engineering firm we've developed a system of redundant electrical systems, treatment processes and adequate finished water storage to negate the need for a signed back up agreement with DWSD due to their termination of our contract. Upon inspection of these facilities would you convey your concurrence that there is no regulatory requirement for us to sign a back up agreement with DWSD.

Thank you
Daugherty Johnson
Utilities Administrator
City of Flint

Prysby, Mike (DEQ)

From: Michael Glasgow <mglasgow@cityofflint.com>
Sent: Thursday, April 17, 2014 11:05 AM
To: Rosenthal, Adam (DEQ)
Cc: Prysby, Mike (DEQ); Busch, Stephen (DEQ)
Subject: Re: Proposed Water Monitoring - City of Flint

Adam,

Thank you for the quick response. I assumed there would be dramatic changes to our monitoring. I have people above me making plans to distribute water ASAP. I was reluctant before, but after looking at the monitoring schedule and our current staffing, I do not anticipate giving the OK to begin sending water out anytime soon. If water is distributed from this plant in the next couple weeks, it will be against my direction. I need time to adequately train additional staff and to update our monitoring plans before I will feel we are ready. I will reiterate this to management above me, but they seem to have their own agenda.

Thank you,

Mike Glasgow
Laboratory & Water Quality Supervisor
City of Flint Water Plant

On Wed, Apr 16, 2014 at 2:49 PM, Rosenthal, Adam (DEQ) <ROSENTHALA@michigan.gov> wrote:

Mike, we have been working on a revised schedule for the City of Flint, which is being sent out today in response to your email indicating the plant startup. Mike Prysby must have been the one in contact with Mr. Croft, not sure what was discussed. Mike is out and will return 4/21/14. Until then our supervisor, Steve Bush, can be contacted at 517-643-2314 for plant operation questions.

see attached schedule.

Adam Rosenthal, EQA

MDEQ – Office of Drinking Water and Municipal Assistance

Lansing District – Constitution Hall 1SW

PO Box 30242

Lansing, MI 48909

517-284-6644

17-241-3571

From: Michael Glasgow [mailto:mglasgow@cityofflint.com]
Sent: Wednesday, April 16, 2014 12:59 PM
To: Rosenthal, Adam (DEQ)
Subject: Proposed Water Monitoring - City of Flint

Adam,

Good afternoon, I am contacting you in regards to possible changes in our monitoring for our change to full time operation out of the Flint river. I am expecting changes to our Water Quality Monitoring parameters, and possibly our DBP and lead & copper monitoring plan. Also, I am wondering about our MOR required testing. I know you have probably been in contact with Howard Croft, however I have not seen anything except the notes you or Prysby made on the last page of our 2014 monitoring schedule "that things were subject to change". Any information would be greatly appreciated, because it looks as if we will be starting the plant up tomorrow and are being pushed to start distributing water as soon as possible. As the acting F-1, I would like to make sure we are monitoring, reporting and meeting our requirements before I give the O.K to start distributing water.

Thanks,

Mike Glasgow

Laboratory & Water Quality Supervisor

City of Flint Water Plant

(810)787-6537 ext. 3512

From: Michael Glasgow [mglasgow@cityofflint.com]
Sent: Thursday, April 17, 2014 11:05 AM
Subject: Re: Proposed Water Monitoring - City of Flint

Adam,

Thank you for the quick response. I assumed there would be dramatic changes to our monitoring. I have people above me making plans to distribute water ASAP. I was reluctant before, but after looking at the monitoring schedule and our current staffing, I do not anticipate giving the OK to begin sending water out anytime soon. If water is distributed from this plant in the next couple weeks, it will be against my direction. I need time to adequately train additional staff and to update our monitoring plans before I will feel we are ready. I will reiterate this to management above me, but they seem to have their own agenda.

Thank you,

Mike Glasgow
Laboratory & Water Quality Supervisor
City of Flint Water Plant

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see attached schedule.

Adam Rosenthal, EQA

MDEQ – Office of Drinking Water and Municipal Assistance

Lansing District – Constitution Hall 1SW

PO Box 30242

Lansing, MI 48909

517-284-6644

fax: 517-241-3571

From: Michael Glasgow [mailto:mglasgow@cityofflint.com]
Sent: Wednesday, April 16, 2014 12:59 PM
To: Rosenthal, Adam (DEQ)
Subject: Proposed Water Monitoring - City of Flint

Adam,

Good afternoon, I am contacting you in regards to possible changes in our monitoring for our change to full time operation out of the Flint river. I am expecting changes to our Water Quality Monitoring parameters, and possibly our DBP and lead & copper monitoring plan. Also, I am wondering about our MOR required testing. I know you have probably been in contact with Howard Croft, however I have not seen anything except the notes you or Prysby made on the last page of our 2014 monitoring schedule "that things were subject to change". Any information would be greatly appreciated, because it looks as if we will be starting the plant up tomorrow and are being pushed to start distributing water as soon as possible. As the acting F-1, I would like to make sure we are monitoring, reporting and meeting our requirements before I give the O.K to start distributing water.

Thanks,

Mike Glasgow

Laboratory & Water Quality Supervisor

City of Flint Water Plant

(810)787-6537 ext. 3512

From: Michael Glasgow <mglasgow@cityofflint.com>
Sent: Wednesday, April 16, 2014 12:59 PM
Subject: Proposed Water Monitoring - City of Flint

Adam,

Good afternoon, I am contacting you in regards to possible changes in our monitoring for our change to full time operation out of the Flint river. I am expecting changes to our Water Quality Monitoring parameters, and possibly our DBP and lead & copper monitoring plan. Also, I am wondering about our MOR required testing. I know you have probably been in contact with Howard Croft, however I have not seen anything except the notes you or Prysby made on the last page of our 2014 monitoring schedule "that things were subject to change". Any information would be greatly appreciated, because it looks as if we will be starting the plant up tomorrow and are being pushed to start distributing water as soon as possible. As the acting F-1, I would like to make sure we are monitoring, reporting and meeting our requirements before I give the O.K to start distributing water.

Thanks,

Mike Glasgow
Laboratory & Water Quality Supervisor
City of Flint Water Plant
(810)787-6537 ext. 3512

From: Reynolds, Lawrence <LawrenceR@mottchc.org>
Sent: Wednesday, December 09, 2015 4:06 PM
To: Anderson, Madhu (DEQ)
Cc: Chris Kolb; ksikkema@pscinc.com; mattdav@med.umich.edu; erothste@grg-ltd.com; Wyant, Dan (DEQ); Baird, Richard (GOV); lrey52@gmail.com
Subject: RE: Requested Emails

Thank you.

From: Anderson, Madhu (DEQ) [mailto:AndersonM30@michigan.gov]
Sent: Wednesday, December 09, 2015 3:57 PM
To: Reynolds, Lawrence
Cc: Chris Kolb; Ken Sikkema (ksikkema@pscinc.com); mattdav@med.umich.edu; erothste@grg-ltd.com; Wyant, Dan (DEQ); Baird, Richard (GOV); lrey52@gmail.com
Subject: Requested Emails

Dr. Lawrence, I have attached to this correspondence all emails and replies exchanged between Mike Glasgow and Flint Water Department/Staff with Michigan DEQ staff between the dates of April 13 and April 30, 2014, as requested.

I apologize for the length of time it has taken to get these to you. Please let me know if we can provide any other information.

Madhu R. Anderson
Deputy Director, Economic and Strategic Initiatives
☎ 517 284 6702 | 517 290 9653
✉ andersonm30@michigan.gov

From: Murray, David (GOV)
Sent: Friday, December 11, 2015 11:42 AM
To: Baird, Richard (GOV)
Subject: FW: Flint EBL Report Press Release
Attachments: Flint Blood Testing Report December 11.pdf; Flint EBL Data Press Release Dec. 11.docx

Rich, here's an update on the Flint blood lead testing. Latest totals are 39 people with elevated levels out of 1,836 tested. If my math is right, that's about 2.1 percent.

Dave Murray
Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

From: Eisner, Jennifer (DHHS)
Sent: Friday, December 11, 2015 11:32 AM
To: Murray, David (GOV) <MurrayD1@michigan.gov>; Brown, Jessica (GOV) <BrownJ53@michigan.gov>; Kennedy, Jordan (GOV) <KennedyJ4@michigan.gov>
Cc: Lasher, Geralyn (DHHS) <lasherg@michigan.gov>; Minicuci, Angela (DHHS) <MinicuciA@michigan.gov>; Wurfel, Brad (DEQ) <Wurfelb@michigan.gov>; Tommasulo, Karen (DEQ) <TommasuloK@michigan.gov>
Subject: Flint EBL Report Press Release

Team Gov:

Attached please find the second blood lead level summary report for Flint and the corresponding press release. With it being Friday, we would like to get this out as soon as possible – ideally at or before 1 p.m.

Please let me know if you have any concerns.

Best,

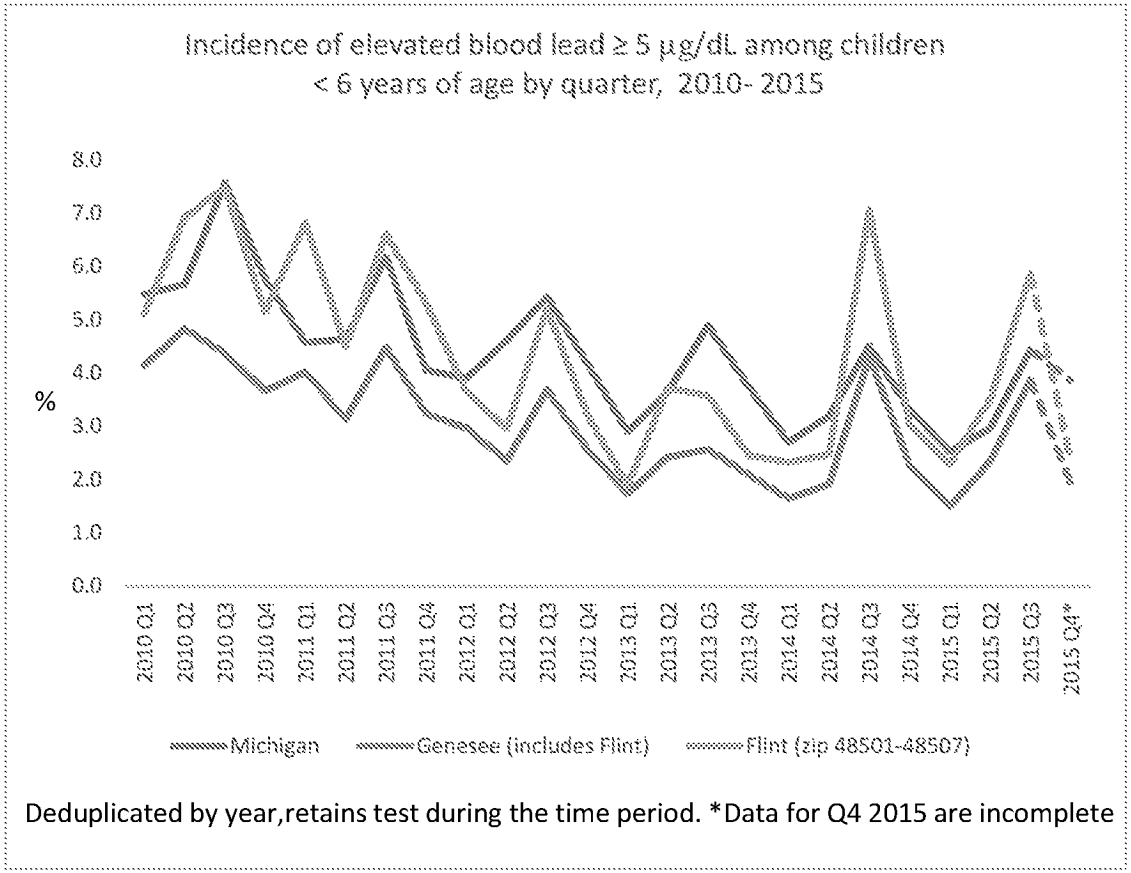
Jennifer Eisner
Public Information Officer
Michigan Department of Health and Human Services
Office: 517-241-2112 or EisnerJ@michigan.gov
Cell: PPI

Michigan Department of Health and Human Services (MDHHS)
Blood Lead Level Test Results for Flint Zip Codes 48501-48507
Genesee County, and the State of Michigan
Summary as of December 4, 2015

Executive Summary

This report is generated by MDHHS to track Blood Lead Level test results in Flint, Michigan.

- Counts on this report include both capillary and venous blood tests. People who have had multiple tests are counted only once per year.
- Since 10/1/2015, an additional 1,836 people have been tested in Flint.
- Continued testing efforts by Genesee County Health Department, MDHHS and local medical personnel have identified 27 children with blood lead levels greater than or equal to 5µg/dL (micrograms per deciliter) since 10/1/2015.
- 2.4 percent of the children younger than 6 years old tested since 10/1/2015 have had blood lead levels greater than or equal to 5µg/dL.
- Additional testing is ongoing. Counts will vary as new results are added.



Deduplicated by year,retains test during the time period. *Data for Q4 2015 are incomplete

** Data for Quarter 4 of 2015 are incomplete and subject to change*

	Children younger than 6 Years Old			Children 6 to 17 Years Old		
	Michigan	Genesee County	Flint 48501-48507	Michigan	Genesee County	Flint 48501-48507
Total tested for lead 1/1/2010 to 12/31/2010:	152,608	6,932	3,560	17,963	867	463
Number of test results ≥5µg/dL 1/1/2010 to 12/31/10:	9,509	298	222	907	25	20
Total tested for lead from 1/1/2011 to 12/31/2011:	149,420	6,667	3,093	15,725	1,038	544
Number of test results ≥5µg/dL 1/1/2011 to 12/31/11:	7,392	250	180	651	20	15
Total tested for lead 1/1/2012 to 12/31/2012:	146,142	7,008	3,112	15,460	1,386	630
Number of test results ≥5µg/dL 1/1/2012 to 12/31/12:	6,704	206	127	478	17	12
Total tested for lead 1/1/2013 to 12/31/2013:	145,813	6,986	3,077	13,897	1,241	566
Number of test results ≥5µg/dL 1/1/2013 to 12/31/13:	5,647	156	95	342	9	4
Total tested for lead 1/1/2014 to 12/31/2014:	141,355	6,690	3,045	12,936	913	428
Number of test results ≥5µg/dL 1/1/2014 to 12/31/14:	4,948	178	122	386	6	5
Total tested for lead 1/1/2015 to 11/13/2015:	127,535	6,178	2,931	11,548	1,352	881
Number of test results ≥5µg/dL 1/1/2015 to 11/13/2015:	4,426	153	104	322	13	10
Total tested for lead 10/1/2015 to 11/13/2015:	22,062	1,389	806	2,127	658	525
Number of test results ≥5µg/dL 10/1/2015 to 11/13/2015:	851	27	19	52	10	8

** Data for Quarter 4 of 2015 are incomplete and subject to change*

	Adults 18 Years and Older			Total Number of People of All Ages Tested		
	Michigan	Genesee County	Flint 48501-48507	Michigan	Genesee County	Flint 48501-48507
Total tested for lead 1/1/2010 to 12/31/2010:	13,853	602	195	184,424	8,401	4,218
Number of test results ≥5µg/dL 1/1/2010 to 12/31/10:	1,462	42	18	11,878	365	260
Total tested for lead 1/1/2011 to 12/31/2011:	13,259	542	139	178,404	8,247	2,726
Number of test results ≥5µg/dL 1/1/2011 to 12/31/11:	1,369	44	16	9,412	314	211
Total tested for lead 1/1/2012 to 12/31/2012:	13,059	556	155	174,661	8,950	3,907
Number of test results ≥5µg/dL 1/1/2012 to 12/31/12:	1,415	33	11	8,597	256	150
Total tested for lead 1/1/2013 to 12/31/2013:	12,199	498	136	171,909	8,725	3,779
Number of test results ≥5µg/dL 1/1/2013 to 12/31/13:	1,499	54	16	7,488	219	115
Total tested for lead 1/1/2014 to 12/31/2014:	12,684	441	112	166,975	8,044	3,585
Number of test results ≥5µg/dL 1/1/2014 to 12/31/14:	1,422	44	12	6,756	228	139
Total tested for lead 1/1/2015 to 11/13/2015:	12,509	1,022	639	151,592	8,552	4,451
Number of test results ≥5µg/dL 1/1/2015 to 11/13/2015:	1,279	41	18	6,027	207	132
Total tested for lead 10/1/2015 to 11/13/2015:	2,513	648	505	26,702	2,695	1,836
Number of test results ≥5µg/dL 10/1/2015 to 11/13/2015:	262	17	12	1,165	54	39

** Data for Quarter 4 of 2015 are incomplete and subject to change*

STATE OF MICHIGAN
DEPARTMENT OF HEALTH AND HUMAN SERVICES
LANSING

RICK SNYDER
GOVERNOR

NICK LYON
DIRECTOR

FOR IMMEDIATE RELEASE
December 11, 2015

CONTACT: Jennifer Eisner
(517) 241-2112

MDHHS releases latest round of Flint blood lead level data

LANSING, Mich. – The Michigan Department of Health and Human Services today issued its newest summary report on lead testing in Flint. According to preliminary data, 39 of 1,836 adults and children tested had elevated blood lead levels since Oct. 1.

"As testing continues, our focus remains on helping families reduce all potential exposures to lead," said Dr. Eden Wells, MDHHS chief medical executive. "We are working closely with the Genesee County Health Department to provide information and offer tools in the community, and encourage families to explore the resources that are available to them."

Both capillary and venous blood tests are included in the report, and people who have had multiple tests are counted only once. Tests and their results cover the time since the state action plan was put in place on Oct. 2, and capture the number of elevated blood lead levels greater than 5 micrograms per deciliter.

MDHHS is working closely with local partners to offer resources and distribute important lead testing and prevention information. Additional state funding has allowed for Genesee County Health Department (GCHD) nurses to work with families when an elevated blood lead level is detected. These families can also choose to have the nurse coordinate an environmental health investigation in their home to identify lead exposures, which could be lead from paint, soil, plumbing, and other sources.

To support these efforts, the state is coordinating with its Medicaid health plans and provider communities on enhanced screening and testing. In addition to mandated testing at ages one and two for the Medicaid population, MDHHS has recommended blood lead testing for any child younger than six years of age in Flint who has not previously been tested. The state, in coordination with GCHD, developed and issued a Health Alert Network (HAN) notification for local providers to help ensure consistent messaging and protocols among primary care providers.

Free water filters and replacement cartridges are still available to Flint residents. For a full list of locations and hours of distribution, or to view the full blood lead level report, visit www.michigan.gov/flintwater. The summary will be updated as more data becomes available.

To help residents properly install water filters, and to demonstrate how to replace the original when it expires, MDHHS has created an instructional video on its YouTube channel. For this and other updates, visit www.michigan.gov/flintwater.

# # #

From: Manolakoudis, Virginia (GOV)
Sent: Friday, December 11, 2015 1:47 PM
To: Chris Kolb; Ken Sikkema; 'Laurence Reynolds'
Cc: Baird, Richard (GOV)
Subject: Confirming: Dr. Mona and Flint Water Mtg 12/14 11am

Good Afternoon,

Just double checking that you are attending Rich's meeting with Dr. Mona and Flint Water on **Monday, December 14th** at **11:00am** in the Governor's Conference Room, 2nd Floor Romney Building.

We will see you on Monday!

Thanks!

Virginia Manolakoudis
Executive Assistant to Richard Baird
Executive Office of Governor Rick Snyder
ManolakoudisV@michigan.gov
(517) 241-5621

From: Reynolds, Lawrence <LawrenceR@mottchc.org>
Sent: Tuesday, December 15, 2015 4:25 PM
To: Baird, Richard (GOV)
Subject: RE: Meeting with Dr. Mona Hanna-Attisha and Flint Water

Thank you for checking .

From: Baird, Richard (GOV) [mailto:bairdr@michigan.gov]
Sent: Tuesday, December 15, 2015 11:53 AM
To: 'Mona Hanna-Attisha'; Reynolds, Lawrence; Matthew M. Davis; Chris Kolb; Ken Sikkema; Chris De Witt; 'Eric Rothstein'; Lyon, Nick (DHHS); Hollins, Harvey (GOV)
Subject: RE: Meeting with Dr. Mona Hanna-Attisha and Flint Water

Dr. Mona:

It was a real pleasure meeting you and thank you for the incredible work you are doing on behalf of the children in my native city. We are committed to working with you on all fronts to make the way forward the best it could be. Also, I want to let you know that I did follow up on whether the former DEQ department leader was still working on water related issues. To my surprise you were correct. When additional schools needed to be tested she was added to help with the workload. I am told she did not supervise, conclude on testing, or anything of that nature but they needed help and the director of DEQ did approve a limited role for her. He is going to be meeting with the TF tomorrow to discuss actions underway. I apologize for asserting otherwise as I had not been aware.

Please call me if I can assist in any way.

Rich

From: Mona Hanna-Attisha [mailto:MHanna1@hurleymc.com]
Sent: Monday, December 14, 2015 7:02 PM
To: Baird, Richard (GOV); Laurence Reynolds; Matthew M. Davis; Chris Kolb; Ken Sikkema; Chris De Witt; 'Eric Rothstein'; Lyon, Nick (DHHS); Hollins, Harvey (GOV)
Subject: RE: Meeting with Dr. Mona Hanna-Attisha and Flint Water

Mr. Baird and all the other guys,

It was a pleasure meeting everyone and a privilege to present to you all. As I said, we have an incredible and unique opportunity to mitigate the impact of this population-wide exposure. If we act now, proactively, we can buffer our kids from the life-altering impacts of lead poisoning.

Flint has many claims to fame (we put the world on wheels, we birthed Mr. Baird!, etc); and now, with your leadership, we can continue to build generations of strong, smart, and healthy children.

If I can be of any further assistance, please don't hesitate to contact me. Email or cell [redacted]

Thanks again, Mona

Mona Hanna-Attisha MD MPH FAAP
Program Director Pediatric Residency

Hurley Children's Hospital at Hurley Medical Center
Michigan State University College of Human Medicine
Department of Pediatrics and Human Development
Mhanna1@hurleymc.com

From: Baird, Richard (GOV) [bairdr@michigan.gov]
Sent: Thursday, December 10, 2015 2:27 PM
Required: Baird, Richard (GOV); Laurence Reynolds; Matthew M. Davis; Chris Kolb; Ken Sikkema; Chris De Witt; 'Eric Rothstein'; Lyon, Nick (DHHS); Grijalva, Nancy (DHHS); Mona Hanna-Attisha
Subject: Meeting with Dr. Mona Hanna-Attisha and Flint Water
When: Monday, December 14, 2015 11:00 AM-12:00 PM.
Where: Governor's Conference Room, 2nd Floor Romney Building, 111 S. Capitol Ave., Lansing, MI 48933

Good Morning,

This is to confirm the meeting with Rich Baird on **Monday, December 14** at **11:00 a.m.** in the Governor's Conference room, second floor Romney Building, 111 S. Capitol Ave. Lansing, MI 48933.

We are located at the George W. Romney Building, 111 S. Capitol Avenue, Lansing. The Romney Building is located directly across the street (Capitol Avenue) from the Capitol Building. There is some metered parking around the building. The closest parking facility is one block south at the corner of Capitol Avenue and Allegan Street (enter the parking facility from Capitol Avenue). https://www.parkme.com/lot/93032/tower-parking-ramp-lansing-mi

You will also want to have a picture I.D. handy for security in the Romney Building. Please let security know who you have a meeting with, they will call me and then send you up to the second floor.

Please let me know if you have any questions.

Thank you!

Virginia Manolakoudis
Executive Assistant for Richard Baird
Executive Office of Governor Rick Snyder
(517) 241-5621
ManolakoudisV@michigan.gov

From: Lyon, Nick (DHHS)
Sent: Tuesday, December 22, 2015 1:32 AM
To: Baird, Richard (GOV)
Subject: Fwd: Edwards Report Response

Here was our public response. You can share with Ken and Chris. I am also willing to talk to them about this.

Begin forwarded message:

> **From:** "Eisner, Jennifer (DHHS)" <EisnerJ@michigan.gov>
> **Date:** December 21, 2015 at 3:46:05 PM EST
> **To:** "Lyon, Nick (DHHS)" <LyonN2@michigan.gov>
> **Subject: RE: Edwards Report Response**
>
> The Michigan Department of Health and Human Services has consistently provided information regarding blood lead levels in the city of Flint.
>
> When initially looking at the citywide and county elevated blood lead level numbers, the increase appeared to be consistent with the routine seasonal fluctuation seen in the summer months. It wasn't until the Hurley report came out that our epidemiologists took a more in-depth look at the data by ZIP code, controlling for seasonal variation, and confirmed an increase outside of normal trends. As a result of this process, we have determined that the way we analyze data needs to be thoroughly reviewed. Additionally, Gov. Rick Snyder has created a Flint Water Task Force to review all city, state and federal responses and actions and is expected to make recommendations moving forward.
>
> Our department is focused on ensuring that appropriate case management and follow up is occurring in Flint. Summary reports outlining blood lead level testing are posted online on a bi-weekly basis, and we are working closely with local partners to fulfill data requests as we receive them.
>
> Regarding the FOIA, Mr. Edwards received all of the requested documents, with personal information redacted, on Friday, December 18.
>
> Jennifer Eisner
> Public Information Officer
> Michigan Department of Health and Human Services
> Office: 517-241-2112 or EisnerJ@michigan.gov
> Cell: PPI

From: Meegan Holland <meegholl@gmail.com>
Sent: Wednesday, December 23, 2015 8:10 PM
To: Baird, Richard (GOV)
Subject: Re: Role
Attachments: DRAFT flint water communicatios plan.docx

Not Responsive

- Meegan

On Wed, Dec 23, 2015 at 4:51 PM, Baird, Richard (GOV) <bairdr@michigan.gov> wrote:

Sent from my Verizon Wireless 4G LTE DROID
---------- Forwarded message ----------
From: "Baird, Richard (GOV)" <bairdr@michigan.gov>
Date: Dec 23, 2015 1:04 PM
Subject: Role
To: "Hollins, Harvey (GOV)" <hollinsh@michigan.gov>
Cc:

--
Meegan Holland
Mobile: PPI
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DRAFT: FLINT WATER PLAN

Thursday, Dec. 24: Gov. calls Karen Weaver to set up a meeting

Talking points:

I've read the draft of a report from the state's Office of the Auditor General and I've been briefed on the task force's progress in its ongoing investigation.

I want to work together with you to get this problem solved. As partners, we can get resources in place more quickly.

I want to assure you this isn't a political move on my part – I'm a problem solver and I want to make this right. I'm truly sorry that all this has happened.

It sounds like you have a block of time available on the morning of Jan. 7. Would you be able to come to Lansing so we could talk between 9-10 a.m.? If so, I'll make sure Beth Emmitt, my scheduler, confirms with Maxine Murray.

Saturday, Dec. 26, or Monday, Dec. 28: RB and others start organizing action plan

- RB talks to Nick Lyon and Dan Wyant about messaging changes and embedding a healthy water communications team – potentially Mel Brown and Ron Leix. This duo would work with those departments' respective communications teams, but also free up those teams to work on other issues not related to Flint water. The healthy water team would be the point people for anything concerning Flint water and lead issues, and will have the authority to assist Harvey Hollins, cut red tape for researchers who want access to DHHS and DEQ records, respond to media requests, edit and/or write press releases in conjunction with the Governor's communications team and more.
- RB explores with Dan whether the in-house choice to take over the Office of Drinking Water and Municipal Assistance is the appropriate choice.
- RB or someone else talks to Steve Arwood and Col. Etue about "borrowing" Mel and Ron. We need to get the ball rolling. I'd love to put them out there at the January presser saying, "These are the folks who will answer questions and provide information to media and stakeholders about the Flint water crisis."

Monday, Dec. 28, or Tuesday, Dec. 29: Harvey Hollins reaches out to researchers

Harvey Hollins reaches out to Marc Edwards and Dr. Mona Hanna-Attisha to serves on a task force that includes the state and independent water experts who have worked on Flint water issues. The purpose is to share information, compare results and track how those results were reached to ensure best practices and accurate reporting.

Talking points for Hollins in his ask of Edwards and Hanna-Attisha:

- Your research has been eye opening and we're hoping you'll be willing to join an effort to ensure Flint's water is safe.
- We'd like you to sit down with state epidemiologists and other researchers so you can discuss lead levels and other issues related to the Flint water crisis. There have been variances and we want to be as accurate as possible.

- We want you to have as much access to our data as is possible under HIPPA laws so we can determine the extent of the problem.
- We want the team to brainstorm ways to get Flint's water back to safe levels for drinking, and to help families learn how they can mitigate any effects from lead.
- Once the water is safe, we want your help in showing the people of Flint that their water is drinkable.

In addition, Capt. Chris Kelenske explores ways to help Flint, including the idea of an imminent danger declaration. Has MSHDA explored HUD grants to help families who need to upgrade their service lines?

Tuesday, Dec. 29: Governor releases statement on Flint water

"I've been briefed on the recent meeting of the task force studying the Flint water situation and I've read the report from the Office of the Auditor General on the processes used by DEQ to monitor Flint water.

"While DEQ followed many of the appropriate protocols, it's not surprising at this point to learn that corrosion controls should have been maintained when switching from Detroit to Flint River water. I've talked with DEQ Director Wyant and have told him I want Michigan to be the state that is known for the safest water in the nation.

"I want to thank the task force for keeping me apprised of their continuing investigation. As they uncover more facts, it's clear to me we can do better. The report may take another month or so, but if we need to make changes more swiftly, I plan to take immediate action.

"The bottom line is we'll take responsibility for our part in Flint's water crisis. Moving forward, I vow to make sure that Flint citizens will have safe drinking water. And I'm so very sorry that this happened.

"But I know an apology isn't enough. We've already allocated $10 million to test the water, distribute water filters, mitigate high lead levels in affected families and inspect plumbing in schools and health facilities.

"I called Flint Mayor Karen Weaver last Thursday, and we're going to sit down in the next week to discuss other ways the state can best offer help.

"What happened in Flint is inexcusable. I want to assure the residents of Flint that we will work hard to make things right."

Monday, Jan. 4 – Personnel changes

Dave Murray talking point: "I can't speak to the specifics, but yes, there have been changes in personnel at the DEQ. We'll announce soon who you can contact to get information about Flint's water situation. For now, you can call me."

Thursday, Jan. 7 – Meeting between the Governor and Mayor Karen Weaver

Governor's talking point: "We had a great meeting today. Mayor Weaver had some great ideas that we want to flesh out. We'll announce soon how we plan to move forward in solving the problems with Flint water."

Possibly Jan. 11 or 13 - Press conference with the Governor and Mayor Weaver to announce action plan

Also in attendance: Point person Harvey Hollins, Directors Nick Lyons and Dan Wyant, Capt. Chris Kesenske, Healthy Water communications team Mel Brown and Ron Leix, Sen. Jim Ananich, Rep. ???, Marc Edwards?, Dr. Mona Hanna-Attisha, who else?

Talking points:

Weaver announces more state money to help Flint and how she looks forward to working with Harvey Hollins.

Harvey talks about how he'll be the boots on the ground in Flint and will coordinate with Lansing resources.

Gov. Snyder reiterates his sadness over the situation and says it calls for extraordinary measures, which the state is prepared to make:

- The state will form a team of independent and state water and lead level experts to go over the various results. The team will include Virginia Tech's Marc Edwards and Hurley Hospital's Dr. Mona Hanna-Attisha, along with state epidemiologists, DEQ experts, etc.
- The team will have full access to DEQ and DHHS records.
- Mel Brown and Ron Leix will be the Healthy Wat4er team and serve as point people for all things Flint water and lead levels. Their roles will be explained.
- The state is exploring the best options to provide more help for Flint, including an imminent danger declaration, HUD community block grants for infrastructure improvements, etc.
- We will document what we learn from this experience to help other cities with water/lead issues.

From: Baird, Richard (GOV)
Sent: Monday, December 28, 2015 11:53 AM
To: Baird, Richard (GOV)
Subject: Re: Draft Document for Review - Not for Distribution - Taking Action on Flint Water - Response Due by Monday, January 4, 2016, COB

I have put Comments/Questions/Suggestions in [ ]...

Draft –Not for Distribution 12/28/15

TAKING ACTION ON FLINT WATER

[I would start off with an apology..."Among the things our citizens have a right to expect from their government is clean, safe water. In Flint's case, government failed them on many levels. As the Chief Executive of the state, I apologize for these failures and am absolutely committed to making things right. I would ask that all of our leaders at the local, state and federal level, work with me to solve the immediate problems and put in place long term measures to monitor and address the consequences from exposure. I also want to thank Dr. Mona Attisha Hannah and Dr. Marc Edwards for their diligence in making sure I understood the severity of the problem.]

• Flint deserves safe drinking water.

• The issues around Flint's drinking water represent the challenges of aging infrastructure.

• As Governor, I am committed to addressing the issue.

• Lead exposure is a serious issue.

• I appreciate those who have brought attention to this issue.

• We are committed to safe drinking water and to working in partnership with the city of Flint and the U.S. EPA.

• We must learn from what happened in Flint.

• **In October, I announced a ten point action plan to address lead exposure in Flint.**

• Today, I am outlining additional actions to make sure the public health is protected in Flint and elsewhere in the State of Michigan.

• I am asking for changes in order to see that the Michigan Drinking Water Program becomes a national leader in public health protection.

On October 2, 2015 the Flint Water Action Plan was announced. With the help of the Michigan Legislature and the Mott Foundation, we have taken significant action to address the issue.Actions include:

• Switching back to the Great Lakes Water Authority/DWSD water supply (October 16, 2015)

• Provided water filters to residents of Flint. (DHHS to provide update) [Distribution has been a problem--are we addressing it?]

• Testing all Flint schools, preschools and day cares. Summary of results to date.(George to provide)

• Expanded health exposure testing of individual residences. Summary of results to date. (Nick to provide)

• Offer water testing at no cost to Flint residents to assure safe water. Summary of results to date. (George to provide)

• Expedite optimizing corrosion control in the Flint drinking water system. Summary of date completed. (George to summarize)

• Utilize the "Safe Drinking Water Technical Advisory Committee." To ensure the best technology, practices and science are being utilized; national experts have been assembled to provide technical advice. [Will you include Dr. Mona? Larry Reynolds? Mark Edwards?]

• Accelerate water system improvement to address replacement of lead service lines. We are working with the city of Flint and our Congressional delegation on a lead service line replacement plan.

• Working to expedite the completion of the Karegnondi Water Authority.

• Expand a lead education program.
(DHHS to provide update)

• Dr. Eden Wells was named as the Flint Drinking Water Public Health Advisor to ensure safe drinking water.

[Dr. Larry Reynolds was named to the Flint After Action Task Force].

In addition to the announced Flint Action plan, I am calling for additional actions to be taken.

• Recently appointed Harvey Hollins to serve as my administration's point person to coordinate ongoing activities and partner with the city of Flint.

• Asking the DEQ to develop a statewide drinking water school testing program.

• Asking for changes in the Michigan Drinking Water Program in order for it to be recognized as a national leader in public health including:

- o New administrative leadership.
- o Creation of corrosion control expertise.
- o Expanded statewide testing.
- o Improved testing protocols.

• The creation of a health fund for children affected by lead exposure.

• Calling on the Legislature to work with my administration and stakeholders to develop a Strategic Water Fund to address Michigan's long term safe water and water quality infrastructure needs. [This can't get lost. Need more to educate people that our infrastructure is old, that the average city of 50,000 or more likely requires $$$ in remediation. At some point the anti corrosive treatment is not likely to be sufficient.]

• I will look to implement additional recommendations of the Flint Water Advisory Task Force, and I appreciate their leadership on this issue.

Sent from my iPad

On Dec 28, 2015, at 10:14 AM, Wyant, Dan (DEQ) <WyantD@michigan.gov> wrote:

> Please edit, correct, and expand summaries as indicated in the attached document called Taking Action on Flint Water Draft 12-28-15. This document is intended to serve as a basis for the Governor to address the Flint drinking water issue in the State of the State and budget announcement.
>
> I have also attached a pdf of a document called Drinking Water Program Budget Request for your information.

Please send your response back to me and also copy all by Monday, January 4, 2016, Close of Business.

Thank you.

Dan Wyant
Director
517-284-6700

<TAKING ACTION ON FLINT WATER DRAFT 12-28-15.docx>

<Drinking Water Program Budget Request.pdf>

From: Ken Sikkema <ksikkema@pscinc.com>
Sent: Monday, December 28, 2015 4:35 PM
To: Baird, Richard (GOV)
Cc: Chris Kolb
Subject: Letter to the Governor

Rich:

I want to give you a heads up: the Task Force will be sending a letter to the Governor tomorrow am that states the primary---not the only, but certainly the primary--responsibility for the Flint Water crisis lies at the feet of the MDEQ. We will address three failures: (1) regulatory culture in the Office of Drinking Water and Municipal Assistance; (2) inappropriate and unacceptable public response; and (3) inadequate application of the Lead and Copper Rule.

We address the critical and urgent need to establish responsibility and hold individuals accountable as soon as possible.

It is our intent to send the letter via email tomorrow, with a public release Wednesday am...

The Task Force--both individually and collectively--feel strongly about the need for us to be on record now rather than later.

Don't hesitate to contact me if you have any questions.

Ken Sikkema

--

Ken Sikkema
Senior Policy Fellow
Public Sector Consultants
PH: 517-484-4954
ksikkema@pscinc.com

From: Ken Sikkema <ksikkema@pscinc.com>
Sent: Monday, December 28, 2015 5:10 PM
To: Baird, Richard (GOV)
Cc: Chris Kolb
Subject: Letter to Governor
Attachments: Snyder Letter EPR v5-Clean.docx

Rich:

Attached is the letter the Task Force will be sending to the Governor tomorrow am...

Ken

--

Ken Sikkema
Senior Policy Fellow
Public Sector Consultants
PH: 517-484-4954
ksikkema@pscinc.com

Dear Governor Snyder:

The Flint Water Advisory Task Force, which you appointed on October 21, 2015, has devoted considerable effort and countless hours to our review of the contamination of the Flint water supply: what happened, why it occurred, and what is needed to prevent a recurrence in Flint or elsewhere in the state. We have also been assessing ongoing mitigation efforts to help assure that short- and long-term public health issues and water management concerns will be properly addressed to safeguard the health and well being of the Flint community.

Shortly after we began our work, we recognized the immediate need for better coordination of the state's response to the ongoing public health issues in Flint, and for assignment of a single person to provide this coordination. We addressed these concerns in a letter to you on December 7, 2015, and you responded with immediate adoption of these recommendations. We thank you for the commitment your response demonstrates.

In our continuing efforts, we have now interviewed numerous individuals at state and local levels; reviewed many documents, articles, and emails; and deliberated repeatedly as a group. Both individually and as a group, we have visited Flint several times during the past several weeks to meet with citizens, public health officials and healthcare providers, individuals who have water management responsibilities at the city and county levels, and other public officials.

It is clear to us, particularly as we listen to the people of Flint, that it is both critical and urgent to establish responsibility for what happened in their community and to ensure accountability. This is a first step in a long process to re-establish the trust they no longer have in their government and the agencies whose responsibility it is to protect their health. It is urgent because this deep distrust of government continues to compromise the effective delivery of protective services designed to address ongoing public health issues. It is for these reasons that we are sending this letter at this time.

We believe the primary responsibility for what happened in Flint rests with the Michigan Department of Environmental Quality (MDEQ). Although many individuals and entities at state and local levels contributed to creating and prolonging the problem, MDEQ is the government agency that has responsibility to ensure safe drinking water in Michigan. It failed in that responsibility and must be held accountable for that failure.

The Safe Drinking Water Act (SDWA) places responsibility for compliance with its requirements on the public water system. In this instance, the City of Flint had the responsibility to operate its water system within SDWA requirements, under the jurisdiction of the MDEQ. The role of the MDEQ is to **ensure** compliance with the SDWA through its regulatory oversight as the primary agency having enforcement responsibility for the Flint water system.

The MDEQ failed in three fundamental ways.

<u>Regulatory Failure</u>

We believe that in the Office of Drinking Water and Municipal Assistance (ODWMA) at MDEQ, a culture exists in which "technical compliance" is considered sufficient to ensure safe drinking water in Michigan. This minimalist approach to regulatory and oversight responsibility is unacceptable and simply insufficient to the task of public protection. It led to MDEQ's failure to recognize a number of indications that switching the water source in Flint would—and did—compromise both water safety and water quality. The MDEQ made a number of decisions that were, and continue to be, justified on the basis that federal rules "allowed" those decisions to be made. ODWMA must adopt a posture that is driven not by

this minimalist technical compliance approach, but rather by one that is founded on *what needs to be done to assure drinking water safety.*

A culture change must occur within ODWMA. It must be driven by a mission that is aspirational regarding the role of the MDEQ in ensuring the safety and the quality of Michigan's drinking water. We believe, and have expressed to MDEQ Director Dan Wyant, that as a Great Lakes State, Michigan should aspire to have the safest drinking water in the nation, rather than merely aiming for technical compliance with regulatory requirements.

Failure in Substance and Tone of MDEQ Response to the Public

Throughout 2015, as the public raised concerns and as independent studies and testing were conducted and brought to the attention of MDEQ, the agency's response was often one of aggressive dismissal, belittlement, and attempts to discredit these efforts and the individuals involved. We find both the tone and substance of many MDEQ public statements to be completely unacceptable. In a real way, the MDEQ represents the public, including the very individuals it treated dismissively and disrespectfully in public statements. We recognize that the agency might disagree with the opinions of others on a variety of issues, including testing protocol, interpretation of testing results, the requirements of federal law and rules, and other matters. What is disturbing about MDEQ's responses, however, is their persistent tone of scorn and derision. In fact, the MDEQ seems to have been more determined to discredit the work of others—who ultimately proved to be right—than to pursue its own oversight responsibility.

Failure in MDEQ Interpretation of the Lead and Copper Rule

The federal Lead and Copper Rule (LCR) is central to what happened in Flint, because that rule, at least theoretically, is designed to prevent lead and copper contamination of drinking water. The federal LCR calls for "optimized corrosion control treatment," which the MDEQ did not require in the switch to the Flint River. Prior to the switch, MDEQ staff instructed City of Flint water treatment staff that corrosion control treatment (CCT) was not necessary until two six-month monitoring periods had been conducted. The need for CCT would be evaluated after the results from those two monitoring periods were reviewed. The decision not to require CCT, made at the direction of the MDEQ, led directly to the contamination of the Flint water system.

The MDEQ seems to have taken different positions on whether it faithfully followed the LCR in the Flint situation. It first maintained that it followed the LCR, then stated that it did not follow the rule properly, and most recently claimed that a federal memorandum issued by the US EPA in early November 2015 suggests that the original MDEQ interpretation was possibly correct.

We are not convinced. Even the MDEQ's latest interpretation of the US EPA's November memorandum is overly legalistic and misunderstands the intent of the LCR, which is to minimize risks of lead and copper exposure for human health.

We believe ODWMA's single-minded legalistic focus is the heart of the problem, and it is part of the "technical compliance" culture described above. ODWMA should not be basing its actions solely on a legally possible interpretation of the LCR. It should be focusing on how to protect Michigan's citizens from lead in drinking water.

We met with MDEQ Director Wyant on December 16, 2015, to discuss these issues, as well as many others. We note his substantial agreement with many of our conclusions, particularly as it relates to the regulatory failure and the abysmal public response of his agency. It is our understanding that he has drawn similar conclusions in his own evaluation of the MDEQ's role in the Flint water crisis. At the same

time, it was disappointing to hear his weak defense of the CCT decision based on the EPA's November 2015 memorandum.

We are not finished with our work. Other individuals and entities made poor decisions, contributing to and prolonging the contamination of the drinking water supply in Flint. As an example, we are particularly concerned by recent revelations of MDHHS's apparent early knowledge of, yet silence about, elevated blood lead levels detected among Flint's children. We also feel it important to further review local government decision processes under emergency management. Our final report will highlight and discuss those concerns, among many others, to provide some context to a comprehensive series of recommendations. **As stated earlier in this letter, however, we believe that establishing responsibility is a critical and urgent need, and one that should not wait for our final report in 2016. Individuals and agencies responsible must be held accountable in a timely fashion.**

It is our hope that the heightened awareness of the dangers of lead poisoning can be an opportunity to make Michigan safer, particularly for its children. Drinking water must be recognized as a potential source of health risk exposure when water lines and fixtures containing lead are disturbed or compromised. Proper testing, not only in high-risk areas but also in facilities serving children (e.g., schools), must be considered. Facilitating long-term financing of a model public health program, and also replacement of lead-containing water service lines and fixtures, would enable Michigan to realize a positive lasting legacy from the tragedy of the Flint water crisis. Our final report will address some of these issues.

The City of Flint's water customers—fellow Michigan citizens—were needlessly and tragically exposed to toxic levels of lead through their drinking water supply. They deserve a commitment to properly assess responsibility and ensure accountability. They also deserve a commitment to needed mitigation in both the short and long term. The Flint water crisis never should have happened. Having failed to prevent it, state government should coordinate a sustained, public-health-focused response to remedy, to the fullest extent possible, the impacts on the Flint community.

Respectfully yours,

Flint Water Advisory Task Force:

Ken Sikkema
Chris Kolb
Matt Davis
Larry Reynolds
Eric Rothstein

From: Kelenske, Chris (MSP)
Sent: Wednesday, December 30, 2015 12:03 PM
To: Baird, Richard (GOV)
Cc: Etue, Kriste (MSP); Gorski, Gary (MSP)
Subject: Thoughts on Next Steps
Attachments: IAP Flint Water 2015-12-29.pdf

Below are some of my initial points to assist with the EO creation. I have not been able to review the local Incident Action Plan so that could change some of the below but my guess is that it will add objectives to it. I attached the IAP from Flint in case it did not go through earlier.

- Before anything can be accomplished, coordination between all parties must be established. We must establish a routine information process between all parties.
- Other avenues of funding must be pursued including federal grants and legislative appropriations.
- While the Emergency Management Act or Stafford may be the best mechanism to fix the issues in Flint, portions of the Emergency Management Act outlining management of events are applicable and should be implemented (e.g. Local emergency operations plans/emergency operations guides as well as emergency operations support plans).

Action Plan

- If a request for a Governor's declaration is received from the county, evaluate the request and provide a recommendation whether to issue a declaration.
- Establish an interagency workgroup comprised minimally of DHHS, MDEQ, and MSP. Consideration should be given to including Civil Rights. Additional agencies/stakeholders who can assist with accomplishing the action plan may be needed. Personnel should be goal oriented and be able to work toward accomplishing the Incident Action Plan created by the state in a timely manner.
- If an EO and/or an Interagency workgroup is created, it must compliment and not replace the current system under the Emergency Management Act.
- The workgroup should utilize the National Incident Management System and Unified/Incident Command as appropriate.
- Establish routine communications protocols at the operational, executive, and legislative levels as determined appropriate.
- Establish interagency workgroup objectives using the following as a starting point.
    1. Determine and convey acceptable standards for potable water.
        - Identify needed remediation.
        - Convey the remediation plan objectives to interested parties.
        - Implement the plan.
    2. Determine health impacts for the impacted population.
        - Identify treatment methods.
        - Convey the treatment plan objectives to interested parties.
        - Implement the plan.
    3. Establish a public information protocol to effectively inform the community of the situation and actions taken.
        - Identify existing Public Information outlets within the city, county, and state.
        - Determine official information flow and approval of information.
        - Convey to interested parties.
    4. Assess the status of the infrastructure and determine feasible actions to upgrade the water system.
        - Determine current state of the infrastructure.

- Develop priorities, costs, and potential funding sources for infrastructure upgrades as part of a long term recovery plan.
- Implement the plan.

Chris

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Emergency Management and Homeland Security Division
Michigan State Police
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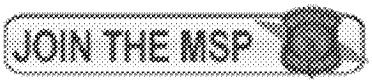

CITY OF FLINT

INCIDENT ACTION PLAN

STATE OF EMERGENCY

Objectives:

To provide short term relief and long term solutions in addressing the man-made emergency of increased lead levels in the City of Flint (the "City") water system resulting from the switch to Flint River as the City's water source as well as the threat to public health related to elevated blood lead levels in Flint residents, without interruption of the provision of public safety and other essential public services. Due to the fluidic nature of emergencies and the complexity of the City of Flint's declared emergency, this plan serves as a framework and may be altered as the emergency develops.

The Response Framework

The purpose of this plan is to organize efforts on behalf of the city to assess the extent of the City's infrastructure needs and risks to public health, provide immediate relief to those who are at risk, and establish long term solutions. In addition, the city must ascertain what immediate relief and long term solutions the City is capable of implementing based on what resources are available. For any activities that are beyond the resource capacity of the City, external sources of funding, supplies, and manpower must be sought.

There are a number of steps that must be taken in accordance with the Flint Emergency Support Operations Plan (SEOP), in order for the City to be compliant with the Genesee County Emergency Action Guidelines. These include the activation of the Incident Management Team, the Emergency Operation Center, and the sharing of essential documents with the County, including this plan. Information must also be shared by the City's Public Information Officer on a regular basis, as required by the SEOP.

This plan calls for the provision of immediate relief to those at risk in our community. Special consideration must be given to residents who belong to underserved groups, such as those who are homebound, undocumented, in poverty, etc. Additional consideration must also be given to the equitable provision of services throughout our community in order to equally protect the health and safety of every member of our community.

Implementation of this plan is to be conducted by the Incident Management Team, which will monitor the effective delivery of goods and services in order to address the conditions of the emergency.

Understanding the Issue:

October 1, 2015, the Genesee County Health Department issued a Public Health Emergency after elevated blood-lead levels were found among children in the City of Flint. This incident correlates with elevated levels of lead found in the City's drinking water after the City switched water sources in April of

2014 to the Flint River. The scope of this problem appears to be limited to Flint City Water Customers and their dependents. Public agencies from several levels of government, as well as charitable, nonprofit organizations have partnered with the City to provide immediate relief to Flint residents, including the expansion of health services, the provision of bottled water and NSF rated water filters. The city is also seeking long term infrastructure improvements to eliminate lead and other contaminants from the water system.

Gov. Rick Snyder appointed a task force to review "actions regarding water use and testing in Flint" and to make recommendations for future guidelines: Members of the state task force are Ken Sikkema of Public Sector Consultants, Chris Kolb of the Michigan Environmental Council, Dr. Matthew Davis of the University of Michigan Health System, Eric Rothstein of the Galardi Rothstein Group and Dr. Lawrence Reynolds of Mott Children's Health Center.

In an effort to halt the further escalation of this crisis, the City returned to receiving its water from the Detroit Water and Sewerage Department (DWSD) on October 16, 2015. Since that time, additional corrosion control program has started, estimating a reduction of lead levels over the next six months. In light of these efforts, concerns surrounding the quality of water and health of the residents persist to the point that Mayor Karen Weaver declared a State of Emergency on December 14, 2015 so as to resolve this crisis once and for all.

The current challenge facing the City is providing immediate relief and long term solutions of the quality of the water and health of residents while the City remains in a financially critical condition. It is hoped and expected that higher levels of government recognize this emergency as it pertains to the condition of the City's infrastructure and health of its residents, and do all things necessary to assist the City in the provision of relief and the execution of capital improvement projects that will eliminate the causes of this emergency.

Enhancing Understanding:

Information Collection

Essential Elements of Information (EEIs) can be qualified as the City's water tests containing lead results, the verification of lead water lines (both public and private), and health information. Water testing is performed by the City's water plant in cooperation with the MDEQ. The verification of lead water lines is being handled by University of Michigan Flint, who is currently digitizing the City's water line information and PSI Engineering, who is initiating the effort to verify lead lines by excavating an initial 150 residential lines. This information allows the Incident Management Team to assess the current condition of the emergency by way of determining the water quality and the condition of the water distribution infrastructure.

Information Analysis

The City has sought partners to assist in the analysis and attenuation of complex data. Wayne State University's center for Urban Studies has agreed to assist the City in its efforts to document and track lead water lines, water test results, and filter distribution with geographic information system (GIS) technology. This allows for easily updateable, digestible information to be presented to officials.

Assessment of Impacts

The City will need assistance in determining the total cost of damage done to the public health and infrastructure. As of now, only portions of this damage are visible.

PSI is providing some assistance by excavating 150 residential water lines to verify that they are comprised of lead. This is an initial step, but not enough. More resources will be needed to continue this process.

Continuous Situational Awareness

It is important that the Emergency Management Team receive continuous information regarding water testing results, lead water line numbers, and filter distribution information in order to gain a realistic and current perspective. Much of his information is currently available on the City's website (cityofflint.com) and more is added each week by the PIO team.

Actions taken in Response to the Emergency

Activation of the Incident Management Team

Upon the declaration of Emergency by Mayor Weaver, the Support Emergency Operations Plan (SEOP) was activated. The SEOP calls upon the Incident Management Team to generate the Incident Action Plan (IAP. Each member of this team serves a specific function as it relates to addressing the causes and effects of the emergency. The Emergency Management Team roster can be found in the SEOP on page 3, with a list of alternates on page 4 in case the need for succession arises.

Emergency Operations Center

The Emergency Operations Center (EOC) must be activated upon the declaration of a State of Emergency by the Mayor. This center is required by the SEOP and serves as a nerve center for the Incident Management Team. Here, emergency relief efforts are coordinated by key members of the Incident Management Team. In this case, these relief efforts consist of the distribution of water filters at

City Hall and community events, the distribution of bottled water throughout the city in conjunction with the efforts of community partners, and assisting with the circulation of water testing kits throughout the community. The EOC will also be monitoring and managing the inventory of relief supplies, such as water filters and bottled water.

According to the SEOP, the EOC must establish an incident tracking system. This system will serve as a work plan for the management of the emergency. In addition, it is essential that the IMT record water testing results, lead water line location information, and information about the distribution of water filters and bottled water all in one place so that information is readily available for the Incident Management Team. This information will also be sent out to the public and media in the form of daily regular updates by the City's PIO.

Communication

The EOC maintains a telephone system that exists to intake questions about relief efforts and to organize relief logistics. It is open from 8am to 5pm, Monday through Friday. A voicemail system and eventual email system will exist to handle requests and inquiries that occur outside of the normal operating hours. This system will be constructed by the City's IS department.

Public Awareness and Education

1. **Emergency Alerts and Updates:**
   The City's Public Information Officer will make available information as it relates to the emergency in the form of press releases, emails, and physical documents. Daily updates containing information on the distribution of water filters, bottled water, water testing, blood lead testing, and other relief efforts will be available on the City's website for the public to view. Information will be available at City Hall for residents.

2. **Joint Information Center:**
   The City's PIO will establish a joint Information Center that is organized to coordinate the efforts of multiple agencies to communicate with the public. This includes the circulation of joint press releases, public health information, educational materials, and updates relating to the State of Emergency. This committee is comprised of public information officers and public relations personnel to coordinate efforts to keep the public updated and informed. Regular updates to the media regarding events and progress will be made as news develops.

   The US EPA has offered assistance in the form of Public Information support. Additional support in this area has been provided by the Michigan State Police.

3. **Education:**
   Many government agencies and philanthropic organizations are already distributing information regarding the effects of lead on public health. It is important that the City assist in these efforts so vital information and knowledge is presented to all members of the community. The goal is to continue to eliminate misunderstandings and incorrect information as it relates to reducing lead in drinking water, pursuing medical help, and maintaining a healthy diet to reduce lead absorption in the body. Lead education is currently being performed by the Genesee County Health Department, the Michigan Department of Health and Human Services and Medical community at-large.

Assessment of Social Needs

In order to effectively and equitably provide immediate relief to Flint water customers, the City must take into account many of the socio-economic needs and limitations of the community. Some residents cannot get to City Hall for a water filter. Some residents do not have internet access. Literacy or a language barrier may also pose significant obstacles to the effective distribution of educational information and relief to those in need. These will be continuing challenges facing the community. At present these are the resources the City has available to mitigate some of those challenges.

Logistics

Logistics are being coordinated by the City Emergency Management Team's City's *Chief Logistics Officer*, who is the City Administrator. The CLO is responsible for the coordination, procurement, and transportation of goods and services, which is essential for effective implementation of the response plan.

Fixed Distribution Points

There are several locations throughout the city where residents may acquire a water filter. These locations are:

Flint City Hall
1101 South Saginaw, Flint MI 48502

Genesee County Community Action Resource Department (GCCARD)
601 North Saginaw, Flint MI 48502
and
2727 Lippencott Blvd, Flint MI 48507

Michigan Department of Health and Human Services
4809 Clio Road, Flint MI 48504
and
125 E. Union Street, Flint, MI 48502

Activation of Ward Distribution Centers

Each of the nine wards will have activated distribution centers that are primarily managed by City Council Members or their designees.

Flint City Council – Water Distribution Sites

WARD	COUNCILPERSON	LOCATION	ADDRESS
1	Eric Mays	Hasselbring Senior Center	1002 W. Home Avenue
2	Jackie Poplar	Joy Tabernacle Church	2505 N. Chevrolet Avenue
3	Kerry Nelson	Antioch Baptist Church	1083 E. Stewart Avenue
4	Joshua Freeman	Flint Fire Station No. 5	3402 Western Road
5	Wantwaz Davis	Doyle/Ryder Elementary School	1040 N. Saginaw Street
6	Herbert Winfrey	New Community Baptist Church	1375 Lavender Avenue
7	Monica Galloway	Brennan Community Center	1301 Pingree Avenue
8	Vicki VanBuren	Flint Southwestern Academy	1420 W. 12th Street
9	Scott Kincaid	Dort Mall Police Service Station	3600 S. Dort Highway

Mobile Distribution Centers

With the help of transportation agencies, like the Metro Transit Authority (MTA), meals on wheels, and GCCARD, the city can help establish mobile distribution centers and delivery systems that can provide water filters, bottled water, and nutritious foods, among other types of relief accompanied by educational materials to neighborhoods and to homes of people who experience limited mobility.

- Mass Transportation Authority-MTA bus passes: Assisting residents with bus passes to improve their mobility will increase their chances of receiving help. Transportation services will also improve residents' access to medical care.
- MTA-Your Ride mobile distribution:
    - Estimated Costs: $25 per hour to deliver water and filters to homes throughout the City.

Problem 1. Public Health Emergency

The first objective in addressing this emergency is reducing, and eventually eliminating, the danger to public health. As City water coming out of faucets continue to contain lead, and copper and other

harmful contaminants exceeding government guidelines and regulations, it poses a risk to the people of our community. Preventative measures must be taken to avoid the effects of toxicosis that are difficult if not impossible to completely reverse.

As far as preventative measures are concerned, education, water filters, and bottled water must be provided to every household in the City in order to reduce the chances of lead exposure, especially to our most vulnerable members of the community. If lead exposure has occurred, resulting in elevated blood lead levels, immediate and sustained medical attention must be available to those affected. Health services must be expanded in the area to accommodate increased numbers of case loads and specialized care regarding lead poisoning and its effects.

Immediate Relief for Public Health:

1. Prevention: Education, water filters and replacement cartridges, free water testing, and bottled water must be available to everyone.
2. Access to nutritious food that reduces the risks of lead absorption by the body. The City can coordinate activities with the County Health Department

Long Term Solutions: Maintaining Public Health and Coping with Lead Exposure

1. Work closely with the Genesee County Health Department and Michigan Department of Health and Human Services in order to provide sustainable care and monitoring of children exposed to lead. This care must be available for them for several years-preferably several decades.
2. Support and education for primary care providers regarding aggressive long-term neurodevelopmental screening and testing.
3. Improved access to developmental and behavioral (DBP) specialists, pediatric psychologists, pediatric psychiatrists.
    a. Pre-emptive referral to mental health/ toxic stress screenings.
    b. Support capacity building and or incentivize recruitment to allow Genesee health system (CMH) to build this capacity which is currently needed and lacking.
4. Increase recognition and education regarding trauma informed care, social determinants of health (SDOH).
5. Expand State funded Genesee Health System (CMH) services.
    a. Infant mental health (30 day capacity)
    b. Child case management
    c. Home based services
    d. Trauma informed care- trauma focused CBT

Problem 2. Lead Contamination in the Water

Immediate Relief:

1. Education, water filters and replacement cartridges, free water testing for water customers, and bottled water must be available to everyone. Water filters can be obtained at any of the fixed distribution points throughout the City.
2. Identification and verification of lead water service lines throughout the city- both public and private.
3. Assistance to identify lead pipes within buildings and homes.

Distribution of Bottled Water:
At this point, we are directing all offers for donations to the Food Bank of Eastern Michigan. It is imperative that water be accessible to all members of the community through a variety of distribution channels. These channels are explained in the Logistics Section of this plan.

Distribution of Test Bottles:
Water testing kits can be picked up at City Hall with instructions. Test results are posted on the City's website to raise public awareness and encourage more participation.

Long term Solutions: Capital Improvements Needs
The distribution of filters, water, and food to counter the effects of lead are essential response efforts to keep people safe. However, long term solutions are required to keep people healthy, to eliminate lead from the public and private water distribution system distribution, and to provide affordable clean water. Our public infrastructure and utilities must be reliable, sustainable, and equitable in order for this community to rebound after this emergency. The following long term solutions must be implemented in order to set the City of Flint on a course for recovery. These solutions come at a heavy cost for a City that is currently in receivership. The City has experienced financial distress due to this Emergency, in addition to a two million dollar loss from switching back to DWSD. The City has diligently applied for Fiscally Distressed Cities, Villages, and Townships, Grant in order to supplement funding for capital improvement projects. It is essential that these grants be awarded in order to achieve long term solutions.

1. COMPLETE **Transition to a Temporary Safe Water Source until the Completion of KWA:**
   This has already occurred. On October 16, 2015, Flint returned to receiving its water from DWSD on a 9 month agreement. This agreement will expire in June 2016, when the KWA is projected to be complete. The City had to pay $2 million out of its general fund to make this switch.

2. IN PROGRESS **Additional Corrosion Control added to the Water System:**

This is already occurring. In early December, 2015, Flint began to add additional corrosion control to the water coming in from DWSD in attempts to rebuild the protective scale inside its pipes. This is estimated to reduce lead levels in two to six months.

3. **Faucet Replacement:**
   Replacement of Water faucets, and drinking fountains in the school system. It has been determined after state inspections that many sources of lead contamination in the School System's water were the faucets themselves. These faucets need to be replaced.

4. **Water Line Replacement:**
   Water Line Replacement to reduce antiquated infrastructure and lead service lines. These lines must be identified, verified, and replaced. Residents who are facing financial hardships must have access to assistance to cover the costs of these replacements through access to grants and (forgivable) loans made available through State and Federal agencies. The corrosion damage to public and private lines that Flint River water caused is still being determined.
   - Replacement of an estimated fifteen thousand (15,000) lead service lines at an estimated cost of three thousand dollars ($3,000) per line. Total costs forty –five million dollars ($45,000,000). This project is estimated to be one of the most cost-intensive endeavors related to ameliorating water contaminants.

5. **Reimbursement of Critical Expenditures:**
   Seeking reimbursement of two million dollar cost of returning to DWSD and forgiveness of Water Revolving Loan Debt from the State of Michigan.

6. **KWA Capital Improvements**: The City has reconnected to Detroit temporarily until a water line from Port Huron is developed. The new water line known as the KWA pipeline or Karegnondi Water Authority is expected to bring water to the City from Lake Huron by July. The current cost agreement between Flint and DWSD is for nine months, therefore it is imperative that KWA be completed as soon as possible. Assistance relating to capital improvements to expedite this process will help to achieve long term goals.

KWA Capital Improvements:	**Estimated Costs:**
a. Transfer Station to Dort Reservoir	*$4,500,000*
b. Raw water line to pump station #4	*$636,000*
c. Phosphoric acid feed system	*$186,000*
d. Alum Feed system	*$40,000*
e. Post filtration system	*$387,289*

f.	*SCADA Upgrades*	*$424,000*
g.	*Sewer Relining*	*$100,000*
	Total	***$6,273,289***

Ancillary Considerations: Public Safety during an Emergency

During a time of emergency public safety agencies need to be prepared to respond to threats to public safety and critical infrastructure. The City is facing a man-made emergency that is threatening the public health. Resentment and hostility toward local institutions and municipal government is at a significant level.

Critical infrastructure should be safeguarded if the need arises. This includes increasing security at City Hall to reduce potential for public safety risks. In the case of credible threats to public infrastructure, it may be required to hire private security company for first line of defense. Private Security is lower cost, thereby making it the first option. The minimum response is acted upon first, elevating only if the need arises. Credible or imminent threats of damage or destruction to critical infrastructure requires an elevated response. Such needs may require over-time police officers to address critical situations. Mutual aid from surrounding communities can be requested if Flint public safety is overextended.

Implementation:

Community Partners

Financial limitations of the city persist while it confronts this emergency. Many community partners have offered their assistance to perform various needed functions. The city is heavily reliant on the assistance that government agencies and nonprofit organizations have provided.

The Mott Foundation

The Mott Foundation has provided financial assistance, especially in their generous contribution of $4 million. In addition, the Mott Foundation has recently pledged an additional

United Way

The Genesee County United Way has provided significant financial assistance in the way of purchasing and helping to distribute water filters since the public health emergency began on October 1st, 2015.

Genesee County Community Action Resources Department (GCCARD)

GCCARD is organized to fight poverty and has been a primary partner in the distribution of water filters. It has also regularly supported the city with the logistics and availability of water filters at City Hall.

Genesee County Health Department

Has provided educational information to Flint Water customers

Genesee County Board of Commissioners

The Board of Commissioners have pledged their support to help Flint seek solutions to this crisis. The Board has already assisted in making health and nutrition information available to the public.

Assistance from Wayne State University

Wayne State University's Center for Urban Studies will be providing technical GIS support to assist in the documentation of emergency relief efforts.

The US Environmental Protection Agency

Region 5 EPA has offered assistance with Public Information distribution during the emergency.

Outside Help is still needed…

The City of Flint is forever thankful to our community partners who have given so much to help so many people. However the magnitude of this emergency calls for more resources that are beyond the capacity of the combined local organizations and government agencies. Long term solutions will require a heavy investment in health care and capital improvement projects to upgrade the city's antiquated water distribution system.

- Help with Immediate Relief in terms of assuring allocative efficiency. Distribution should be equitable- assistance from other governments required to assure this.
- Reaching communities for the distribution of water filters, water, and educational materials.
- Help with Water Testing to increase participation and lead education.
- Increasing the rate of water testing
- Assistance is required to fund essential capital improvement projects to guarantee clean and safe water.

From: Kelenske, Chris (MSP)
Sent: Wednesday, December 30, 2015 9:16 PM
To: Baird, Richard (GOV)
Cc: Etue, Kriste (MSP)
Subject: Re: Attorney Client Work Product (Draft), Privileged and Confidential

Not Responsive

On Dec 30, 2015, at 9:12 PM, Baird, Richard (GOV) <bairdr@michigan.gov> wrote:

Not Responsive

Sent from my Verizon Wireless 4G LTE DROID
On Dec 30, 2015 9:09 PM, "Kelenske, Chris (MSP)" <KelenskeC@michigan.gov> wrote:

Not Responsive

From: Holland, Meegan (GOV)
Sent: Wednesday, December 30, 2015 9:01 PM
To: Baird, Richard (GOV); Agen, Jarrod (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Kelenske, Chris (MSP); Murray, David (GOV); Redford, James (GOV); Becker, Timothy (DHHS); Creagh, Keith (DNR); Roberts, John (DTMB)
Cc: Etue, Kriste (MSP); Lyon, Nick (DHHS)
Subject: RE: Attorney Client Work Product (Draft), Privileged and Confidential

Not Responsive

The goal: Assess the extent of the elevated blood lead levels – the number of those affected and the degree to which they're affected

- Get as many people in the affected zip codes tested as possible – can the Red Cross or some other agency with a bus or mobile unit set up for folks to give blood convert over to blood level testing and go into neighborhoods that have low testing rates?

- A public health friend of mine said that Genesee County Health workers are stressed to the max. Can we deploy appropriate personnel from other county health agencies to help with inspecting homes for possible other causes? In other words, it won't do any good to invest more in water infrastructure if we're finding window sills with teeth marks. I say this NOT to downplay the role that water lead levels may have played. But can we get Habitat for Humanity, for example, to do a massive volunteer effort to eradicate lead paint in homes … or is that beyond their expertise?

- Gather experts to assess exactly how extensive the problem is and potential causes. And then convey this in a much more accessible ways. If you want blood level data, you have to scroll down on the DHHS web site, find the headline and then read a long press release. Maybe we're conveying this information better on the ground, but if not, we need to communicate conclusive findings in multiple ways– graphics, video, informational photo galleries and maybe even a "test" that residents can take to see if their home is at risk in other ways. I know that sounds awfully MLive-ish, but it can be effective.

From: Baird, Richard (GOV)
Sent: Wednesday, December 30, 2015 6:57 PM
To: Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Kelenske, Chris (MSP) <KelenskeC@michigan.gov>; Holland, Meegan (GOV) <HollandM2@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Redford, James (GOV) <RedfordJ@michigan.gov>; Becker, Timothy (DHHS) <beckert1@michigan.gov>; Creagh, Keith (DNR) <creaghk@michigan.gov>; Roberts, John (DTMB) <RobertsJ9@michigan.gov>

Cc: Etue, Kriste (MSP) <EtueK@michigan.gov>; Lyon, Nick (DHHS) <LyonN2@michigan.gov>
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I know we are all working way too hard for what should be a rest and recharge period but I do appreciate everyone's efforts and I know the Boss really does as well.

Regards,

Rich

From: Etue, Kriste (MSP)
Sent: Wednesday, December 30, 2015 11:14 PM
To: Baird, Richard (GOV)
Cc: Kelenske, Chris (MSP)
Subject: Re: Attorney Client Work Product (Draft), Privileged and Confidential

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Rich

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Tuesday, April 15, 2014 4:29 PM
Subject: PRESS RELEASE: City of Flint Water Presentations
Attachments: Water.Presentations.4.17.2014.pdf

For Immediate Release

City of Flint to Hold Special Public Presentations on Water Ahead of Planned Switch to Flint River as City's Water Source

Flint, Michigan – April 15, 2014 – The City of Flint will be holding two separate public presentations on the topic of water on Thursday, April 17, 2014. There will be a forum for Flint restaurateurs held at 3:00pm inside Café Rhema at 432 S. Saginaw Street in which local managers and owners can address any concerns on the river's use. An informational presentation for the general public will then be held at 5:30pm inside the City Council Chambers of Flint City Hall. That event will include a panel of City of Flint officials as well as John O'brien from the Genesee County Drain Commissioner's office and a representative from the Raftelis Financial Consulting firm.

Use of the river, upgrades and maintenance required for the water and sewer infrastructure and the overall cost of the system will be addressed in the presentation. Last week, the Raftelis firm presented the findings of a water and sewer rate study undertaken at the request of Emergency Manager Darnell Earley to the Flint City Council Public Works Committee.

"The results of the study, along with items related to the use of the river for the period during which the KWA pipeline is built, will be included in this comprehensive view of the present and future of the City's water service system and what will be required to maintain its operation long term," said Emergency Manager Darnell Earley. "We have a strategic vision of how to preserve and improve upon that service and plan on sharing it with the people of Flint." Both events come as the City prepares to begin using the Flint River as its primary source, which is scheduled to occur sometime after this Thursday.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039

jlorenz@cityofflint.com

Darnell Earley
ICMA-CM, MPA
Emergency Manager

Dayne Walling
Mayor

Jason Lorenz
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(810) 237-2039
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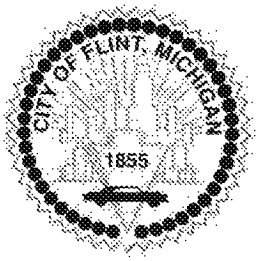
–CONTINUE–

Darnell Earley
ICMA-CM, MPA
Emergency Manager



Dayne Walling
Mayor

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–END–

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Thursday, April 17, 2014 12:23 PM
Subject: MEDIA ADVISORY: Water Plant Photo Op

MEDIA ADVISORY: Water Treatment Plant Drawing from Flint River Photo Opportunity

WHEN: Thursday, April 17, 2014 at 2:00pm

WHERE: Flint Water Treatment Plant, 4500 N. Dort Hwy., at Stewart Ave.

DETAILS: Join us for an historic event as Flint's Water Treatment Plant begins drawing Flint River water for treatment and softening. This is the next major step towards using the Flint River as a primary water source for the first time in almost 50 years and a major step in securing Flint's water independence.

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Saturday, September 06, 2014 10:20 PM
Subject: Fwd: Boil Water Update
Attachments: Scan028.PDF

Please see attached.

--

Brent Wright
Water Plant Supervisor
City of Flint
4500 N. Dort Hwy.
Flint, MI. 48505
Ph: 810.787.6537 ext. 3510
Fx: 810.787.3710

LOCALIZED DRINKING WATER WARNING

Coliform bacteria detected in localized area of Flint water system
BOIL YOUR WATER BEFORE USING

Our water system detected the presence of coliform bacteria in the water supply on September 3, 2014. We routinely monitor for the presence of drinking water contaminants. We took routine samples for coliform bacteria during on September 2, 2014 from all sampling locations throughout the city. The location near Flushing Road and Chevrolet Avenue showed the presence of coliform bacteria. We took three repeat samples at this location and at adjacent locations on September 3 and again on September 4, 2014. Two of the three samples on the 3rd showed the presence of total coliform bacteria and three of the three samples collected on the 4th in this same area showed the presence of total coliform bacteria. On September 5th two of three sample showed presence of total coliform bacteria. **Updated area of ML King and Pasadena.** On September 4th one sample showed presence of total coliform bacteria. On September 5th two of the three samples at adjacent locations showed presence of total coliform bacteria. All other monitoring locations in the City continue to show no presence of Coliform bacteria.

What should I do?
DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST. Bring all water to a boil, let it boil for one minute, and let it cool before using, or use bottled water. Boiled or bottled water should be used for drinking, making ice, brushing teeth, washing dishes, and preparing food. Boiling kills bacteria and other organisms in the water. **Continue using boiled or bottled water until further notice.** This boil notice is limited to the area bordered by Dayton Street (north), DuPont Street (east), Flint River (south), and LaVelle Road to Flint River (west).
The current boil water notice is being expanded to the north. This boil water notice is being expanded to the area bordered by Stewart Ave. (north), Saginaw (east), Hamilton Ave (south), and Clio Rd (west).

If you have a severely compromised immune system, have an infant, are pregnant, or are elderly, you may be at increased risk and should seek advice from your health care providers about drinking this water.

What does this mean?
Total coliform bacteria are generally not harmful themselves. *Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present.*

Usually, coliforms are a sign that there could be a problem with the treatment or distribution system (pipes). Whenever we detect coliform bacteria in any sample, we do follow-up testing to see if other bacteria of greater concern, such as fecal coliform or E. coli, are present. We did not find any of these bacteria in our subsequent testing. If we had, we would have notified you immediately. However, we are still finding coliforms in the drinking water.

2310

CERTIFICATION: WSSN: «WSSN»

I certify that this water supply has fully complied with the public notification requirements in the Michigan Safe Drinking Water Act, 1976 PA 399, as amended, and the administrative rules.

Signature	Plant Supervisor	9/6/2014
	Title	Date Distributed

Reminder to water supplier: This notice / certification must be sent to the DNRE.

What happened? What is being done?
We are still detecting coliform bacteria. We will inform you when our sampling shows that no bacteria are detected. We are flushing the system and increasing the chlorine residual within the affected area. We anticipate resolving the problem within the next two to three days. In the meantime, please continue using boiled or bottled water until we notify you otherwise.

If you have questions, you may contact Mr. Brent Wright of the City of Flint at 810-787-6537,bwright@cityofflint.com , 4500 North Dort Highway, Flint MI. 48505 or Daughtry Johnson, Utilities Administrator
(810) 766-7135, ext. 2602. General guidelines on ways to lessen the risk of infection by microbes are
available from EPA's Safe Drinking Water Hotline at 1-800-426-4791.

CERTIFICATION: 2310 WSSN: «WSSN»

I certify that this water supply has fully complied with the public notification requirements in the Michigan Safe Drinking Water Act, 1976 PA 399, as amended, and the administrative rules.

Signature | PLOT Supervisor Title | 9/6/2019 Date Distributed

Reminder to water supplier: This notice / certification must be sent to the DNRE.

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Monday, September 08, 2014 5:46 PM
To: WNEM; ABC12news; Flint Journal; NBC25 Newsroom; Ron Fonger
Subject: PRESS RELEASE: Boil Water Advisory Extended
Attachments: Boil Water Advisory 9.8.2014.pdf

For Immediate Release

City of Flint Boil Water Advisory Remains in Effect for Previously Identified Area

Flint, Michigan – September 8, 2014 – The City of Flint's Utilities Department has extended both of the boil water advisories from Friday and Saturday for a portion of the city. Friday's boil water advisory is in effect for the area bordered by Dayton Street on the north, DuPont Street on the east, the Flint River on the south, and by Lavelle Road (to the Flint River) on the west. Saturday's boil water advisory also covered the area bordered by Stewart Ave. (north), Saginaw (east) Hamilton Ave (south), and CIio Rd (west). This remains a localized issue to those portions of the city.

The Utilities Department believes that due to the low usage and demand of the area, water remains in the system for a longer period of time compared to the rest of the city. The City of Flint Utilities Department is increasing the chlorine added to water in the area, and to improve water circulation, will continue flushing the system in that part of the city. Residents can expect to see open hydrants in the area. The City of Flint will continue to aggressively investigate this issue until it has been corrected.

The Utilities Department has opted to keep the advisory in effect until the results of a citywide sampling taken today are known. This advisory is a precautionary measure to ensure the safety of drinking water for city residents. Residents in the area should continue to boil water or use bottled water for drinking, making ice,

brushing teeth, washing dishes, and preparing food until further notice. Boiling the water kills bacteria or other harmful organisms.

Total coliform bacteria are generally not harmful themselves. Coliforms are bacteria

which are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria *may be present.* Usually, coliforms are a sign that there could be a problem with the treatment or distribution system (pipes).

Whenever we detect coliform bacteria in any sample, we do follow-up testing to see if other bacteria of greater concern, such as fecal coliform or E. coli, are present. We did not find any of these bacteria in our subsequent testing. If we had, we would have notified you immediately. However, we are still finding coliforms in the drinking water.

All water testing results at the City of Flint Water Treatment Plant have shown the City's drinking water meets all Safe Water Drinking Standards and this remains a localized problem. Testing of the drinking water is a part of the routine process for ensuring the quality and safety of the system which happens weekly at ten different sites around the city. Anyone with questions about the advisory or any other water issues should call 810-787-6537.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

CITY OF FLINT
OFFICE OF EMERGENCY MANAGER
DARNELL EARLEY
ICMA-CM, MPA

Jason Lorenz
Public Information Officer
(810) 237-2039
jlorenz@cityofflint.com

For Immediate Release

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The Utilities Department believes that due to the low usage and demand of the area, water remains in the system for a longer period of time compared to the rest of the city. The City of Flint Utilities Department is increasing the chlorine added to water in the area, and to improve water circulation, will continue flushing the system in that part of the city. Residents can expect to see open hydrants in the area. The City of Flint will continue to aggressively investigate this issue until it has been corrected.

–CONTINUE–

CITY OF FLINT
OFFICE OF EMERGENCY MANAGER
DARNELL EARLEY
ICMA-CM, MPA

The Utilities Department has opted to keep the advisory in effect until the results of a citywide sampling taken today are known. This advisory is a precautionary measure to ensure the safety of drinking water for city residents. Residents in the area should continue to boil water or use bottled water for drinking, making ice, brushing teeth, washing dishes, and preparing food until further notice. Boiling the water kills bacteria or other harmful organisms.

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–END–

City Hall
1101 S. Saginaw Street - Flint, Michigan 48502
810-766-7346 FAX: 810-766-7218 www.cityofflint.com

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Tuesday, September 09, 2014 5:15 PM
To: Jason Lorenz
Subject: Re: PRESS RELEASE: Boil Water Advisory Lifted
Attachments: Recent Boil Water Notice Lifted 9.9.14.pdf

PLEASE SEE ATTACHED.

Thank You.

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

On Tue, Sep 9, 2014 at 4:36 PM, Jason Lorenz <jlorenz@cityofflint.com> wrote:

For Immediate Release (Official Signed Notice to Follow)

City of Flint Boil Water Advisory Lifted

Flint, Michigan – September 9, 2014 – The City of Flint's Utilities Department and the DEQ have lifted both of the boil water advisories from this week for a western portion of the city. Testing results from all areas of the city confirm that the water is safe for all purposes. "The investigation into the cause of the boil water advisories continues," said Emergency Manager Darnell Earley, "we will share the results from that investigation once it is available."

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039

jlorenz@cityofflint.com

CITY OF FLINT

Department of Public Works

Dayne Walling
Mayor

Darnell Earley, ICMA-CM, MPA
Emergency Manager

Howard Croft
Director

Date: September 9, 2014

RECENT BOIL WATER NOTICE LIFTED

It is no longer necessary to use bottled water or boil water before drinking it. No coliform bacteria have been detected in follow-up testing of the system's water. This, in addition to treatment and adjustments made to the system, indicates that the water is now safe to drink.

Customers with questions or concerns about the water should contact Adam Rosenthal, Michigan Department of Environmental Quality 517-335-9715 or for more information, please contact Brent Wright of City of Flint Water Treatment Plant at 810-787-6537, bwright@cityofflint.com .

4500 N. Dort Hwy
Flint, MI 48505

This notice is being sent to you by City of Flint, Water Supply serial number 2310.

Howard D. Croft
Public Works Director

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Monday, December 15, 2014 4:18 PM
Subject: PRESS RELEASE: KWA Intake Installed at Water Treatment Plant
Attachments: KWA Intake 1.png; KWA Intake 2.png; KWA Intake Installation at Water Plant Dec.2014.pdf

For Immediate Release

City of Flint Takes a Step Closer to KWA Preparedness with a Crucial Upgrade to the Water Treatment Plant

Flint, Michigan – December 15, 2014 – The City of Flint has this week taken a big step toward the eventual transition to use of the Karegnondi Water Authority Pipeline with a much needed upgrade to the City's Water Treatment Plant. A large 36" connection line which will serve as the main feed to the plant from the new pipeline was installed over the weekend of December 6, 2014. "This massive undertaking was done without interruption of service to customers and ahead of its scheduled completion," said Department of Public Works Director Howard Croft.

"The installation of the intake section to the water treatment plant represents a key portion of the City of Flint's transition to using the KWA for our water needs," said Utilities Administrator Daugherty Johnson. "Once construction on the KWA pipeline reaches Flint, the City will have the necessary connection in place to begin receiving and treating Lake Huron water." Along with other critical upgrades to the plant in the past two years, the intake installation brings Flint one step closer to having direct control over all of its water system needs. The KWA pipeline is expected to reach Flint by summer of 2016.

–END–

-Jason Lorenz
Public Information Officer

City of Flint
(810) 237-2039
jlorenz@cityofflint.com

Darnell Earley
ICMA-CM, MPA
Emergency Manager

Dayne Walling
Mayor

Jason Lorenz
Public Information Officer
(810) 237-2039
jlorenz@cityofflint.com

For Immediate Release

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–END–

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Tuesday, January 06, 2015 8:37 AM
Subject: MEDIA ADVISORY: Press Conference on Progress of Water System Plan

MEDIA ADVISORY: Press Conference on Continuing Progress for the Flint Drinking Water System Comprehensive Plan.

WHEN: Tuesday, January 6, 2015 at 2:00pm

WHERE: Flint Water Treatment Plant, 4500 N. Dort Hwy.

WHO: DPW Director Howard Croft, Utilities Administrator Daugherty Johnson and Licensed Operators of the Water Treatment Plant

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

From: Baird, Richard (GOV)
Sent: Friday, October 31, 2014 12:08 PM
To: VanSickle, Michele (GOV)
Subject: FW: Thank You!

Not Responsive

From: Darnell Earley [mailto:dearley@cityofflint.com]
Sent: Friday, October 31, 2014 11:58 AM
To: Baird, Richard (GOV)
Subject: Re: Thank You!

Not Responsive

Darnell Earley, ICMA-CM, MPA
Emergency Manager
Flint, MI

On Fri, Oct 31, 2014 at 11:51 AM, Baird, Richard (GOV) <bairdr@michigan.gov> wrote:

Not Responsive

Sent from my Verizon Wireless 4G LTE DROID

Darnell Earley <dearley@cityofflint.com> wrote:

Not Responsive

[http://cityofflint.com/images/Signature.jpg][X]
Darnell Earley, ICMA-CM, MPA
Emergency Manager
Flint, MI

---------- Forwarded message ----------
From: Darnell Earley <dearley@cityofflint.com<mailto:dearley@cityofflint.com>>
Date: Fri, Oct 31, 2014 at 11:43 AM
Subject: Thank You!
To: wyantd@michigan.gov<mailto:wyantd@michigan.gov>
Cc: Dayne Walling <dwalling@cityofflint.com<mailto:dwalling@cityofflint.com>>, "Workman, Wayne (TREASURY)" <workmanw@michigan.gov<mailto:workmanw@michigan.gov>>, "Byrne, Randall (Treasury)" <ByrneR1@michigan.gov<mailto:ByrneR1@michigan.gov>>, "Koryzno, Edward (Treasury)" <koryznoe@michigan.gov<mailto:koryznoe@michigan.gov>>, Kelly Rossman-McKinney

<krossman@truscottrossman.com<mailto:krossman@truscottrossman.com>>, Elizabeth Murphy <emurphy@cityofflint.com<mailto:emurphy@cityofflint.com>>, "Hollins, Harvey (GOV)" <hollinsh@michigan.gov<mailto:hollinsh@michigan.gov>>

Good Morning Director Wyant:

I wanted to take just a moment to thank you and your team for travelling to Flint Wednesday to meet with me, the Mayor, and the Utilities Department staff.

Everyone on our end appreciated the opportunity to meet directly with you and your key staff at the DEQ. We all felt it was a very productive discussion of the many difficult issues facing the City of Flint not only during this transition, but as its own long-term, sustainable water supply and distribution system, leading towards full implementation of the KWA project. As you know Flint is slated to convert to the KWA water source well within the next 18 month timeline. Until that happens however, I think you would agree that we have an excellent opportunity here to send a good, positive message about how the City is managing its water services, and working very closely with your office in the process.

As we discussed, an initial media hit from your office fairly soon would also help us build public confidence through stronger communication on how we are responding to the challenges we encounter, your department's support of our efforts to resolve them, and the resultant potability of the current water source. If there are other next steps you need from us regarding such a media release, please don't hesitate to contact me.

We look forward to our continued partnership in addressing these and other matters critical to environmental quality in the City of Flint and the State of Michigan!

Sincerely,
[http://cityofflint.com/images/Signature.jpg][X]
Darnell Earley, ICMA-CM, MPA
Emergency Manager
Flint, MI

From: Baird, Richard (GOV)
Sent: Wednesday, September 30, 2015 11:29 AM
To: Frank Brown
Subject: Re: Flint water background information

Not Responsive

Sent from my Verizon Wireless 4G LTE DROID
On Sep 30, 2015 11:24 AM, "Brown, Frank" <fbrown@generalatlantic.com> wrote:

Not Responsive

Sent from my iPad

On Sep 30, 2015, at 3:34 PM, Baird, Richard (GOV) <bairdr@michigan.gov<mailto:bairdr@michigan.gov>> wrote:

Frank:

We have a situation in Flint, Michigan that is beginning to get national attention and could be an opportunity for Home Depot. 18 months ago, Flint switched its water supply from Detroit Water (the distance and pumping costs of going uphill made it quite expensive) to the Flint River as a temporary answer, until they could finish the construction to get their water from Lake Huron (Karagondi Water System). The corrosive attributes of the River water have exacerbated the lead deposit leaching into homeowner pipes and there is concern around lead poisoning, especially for infants.

The corporate community is rallying to address the problem. Meijer donated 1500 water filters to low income residents and GM is about to announce a donation of between 5,000 and 10,000 filters. I do not yet know where GM is getting the filters from, but I was thinking that Home Depot might want to join the effort with a donation, supply chain discounting assistance, or some combination of activity that could help Flint residents. Harvey Hollins is our point person for this effort, since he is the Director of Urban Initiatives for Governor Snyder. I have copied him here.

If you could get this into the hands of the right people and see if there is interest in speaking with Harvey, I would be very appreciative. Thanks and take care.

Regards,

Rich

From: Murray, David (GOV)
Sent: Wednesday, September 30, 2015 9:35 AM
To: Baird, Richard (GOV)
Subject: Flint water background information

Hi Rich,

These are two documents that I think are helpful addressing the questions about lead and Flint water overall, prepared by DEQ and DHHS. These were intended for internal use, so please ask our partners to not share them beyond the people on their teams making the decisions.

Please let me know if you need anything else.

Dave

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov<mailto:MurrayD1@michigan.gov>
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

[Emblem]

<Flint water FAQs (00000004).pdf>
<Sharable Flint Lead TP 092415 (00000002).docx>

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From: Baird, Richard (GOV)
Sent: Friday, October 02, 2015 10:13 AM
To: Robert J Daddow
Subject: Fwd: follow up

Not Responsive

Begin forwarded message:

From: "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>
Date: October 2, 2015 at 10:10:36 AM EDT
To: "Saxton, Thomas (Treasury)" <SaxtonT@michigan.gov>
Cc: "Khouri, Nick (TREASURY)" <KhouriN@michigan.gov>, "Workman, Wayne (TREASURY)" <WorkmanW@michigan.gov>, "Stanton, Terry A. (Treasury)" <StantonT@michigan.gov>
Subject: Re: follow up

Not Responsive

On Oct 1, 2015, at 8:25 PM, Saxton, Thomas (Treasury) <SaxtonT@michigan.gov> wrote:

Dennis - in response to your earlier email; Wayne's guys came up with a ballpark estimate for reconnecting to DWSD. Let me emphasize 'ballpark'. They used your assumptions & they talked to Natasha H. after 5:00. Bottom line... the estimated cost is approx $10.5mm to reconnect until June '16.

These numbers on their surface seem much improved over previous DWSD $offers. [Is Daddow in the loop on this ?] We need to give some more thought as to whether this is all inclusive. e.g., there might be some costs from turning down operations at the plant

I am being told this can happen in a relatively short time i.e., less than a week. Which seems aggressive. Obviously that does not mean the lead concerns nor discolored water, etc goes away in a week. The pipe section they sold to the county won't be an impediment to this deal.

There apparently are no 'upfront' costs we need to worry about. In theory, it seems like it can be paid over the 9-10 months (vs a lump sum). But I am not clear Dennis on those couple ideas/sources the Mayor & Senator mentioned i.e., at this point I am not sure where the $10.5mm comes from.

My guess is we will keep refining this estimate. Let us know if you need anything else. Again, "credit " Wayne's guys for pulling this together quickly.

From: Cline, Richard (Treasury)
Sent: Thursday, October 1, 2015 6:08 PM
To: Saxton, Thomas (Treasury); Koryzno, Edward (Treasury); Byrne, Randall (Treasury)
Subject: RE: follow up

City's usage is 14 MGD/Day

Timeline is 9 months until June 2016

Fixed Cost is $662,100 for 9 months or $5,958,900

Commodity Rate is $501,383/month

Total Monthly Cost is $1,163,483

Cost until June 2016 is $10,471,347

The City does not know the cost to move the water plant into stand-by mode. However, they have indicated that there might be some reduced costs as lower chemical costs will be incurred.

Eric Cline | Department Manager | State of Michigan
Michigan Department of Treasury | Local Government Financial Services Division | Fiscal Responsibility Section
430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
Lansing Office (517) 335-2078 | Cell Phone [PPI] | Traverse City Office (231) 922-5228
E-mail cliner1@michigan.gov

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From: Saxton, Thomas (Treasury)
Sent: Thursday, October 01, 2015 6:01 PM
To: Cline, Richard (Treasury) <clinerl@michigan.gov>; Koryzno, Edward (Treasury) <KoryznoE@michigan.gov>; Byrne, Randall (Treasury) <ByrneR1@michigan.gov>
Subject: follow up
Importance: High

I am getting ready to leave… what have you learned ?

From: Baird, Richard (GOV)
Sent: Friday, October 02, 2015 7:12 PM
To: Daddow, Robert J
Subject: Re: follow up

We are setting up a new revolving fund to enable some borrowing I think. I imagine any deal would require stringent terms on monthly payments.

Sent from my iPad

> On Oct 2, 2015, at 3:41 PM, Daddow, Robert J <daddowr@oakgov.com> wrote:
>
> I think you are in the ballpark of what DWSD is thinking - just saw the reference in Gongwers on the State assisting. Where is Walling coming up with his repeated $2M / month number given the below?
>
> What can I do to help?
>
> My only concern is not being stuck with an unpaid bill at the end of the 9 month period. Just being the accountant that I am. RJD
>
> -----Original Message-----
> From: Baird, Richard (GOV) [mailto:bairdr@michigan.gov]
> Sent: Friday, October 02, 2015 10:13 AM
> To: Daddow, Robert J
> Subject: Fwd: follow up

Not Responsive

> Begin forwarded message:
>
> From: "Muchmore, Dennis (GOV)" <muchmored@michigan.gov<mailto:muchmored@michigan.gov>>
> Date: October 2, 2015 at 10:10:36 AM EDT
> To: "Saxton, Thomas (Treasury)" <SaxtonT@michigan.gov<mailto:SaxtonT@michigan.gov>>
> Cc: "Khouri, Nick (TREASURY)" <KhouriN@michigan.gov<mailto:KhouriN@michigan.gov>>, "Workman, Wayne (TREASURY)" <WorkmanW@michigan.gov<mailto:WorkmanW@michigan.gov>>, "Stanton, Terry A. (Treasury)" <StantonT@michigan.gov<mailto:StantonT@michigan.gov>>
> Subject: Re: follow up

Not Responsive

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Let me emphasize 'ballpark'. They used your assumptions & they talked to Natasha H. after 5:00. Bottom line... the estimated cost is approx $10.5mm to reconnect until June '16.
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> These numbers on their surface seem much improved over previous DWSD $offers. [Is Daddow in the loop on this ?] We need to give some more thought as to whether this is all inclusive. e.g., there might be some costs from turning down operations at the plant
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>
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>
> _____
> From: Cline, Richard (Treasury)
> Sent: Thursday, October 1, 2015 6:08 PM
> To: Saxton, Thomas (Treasury); Koryzno, Edward (Treasury); Byrne, Randall (Treasury)
> Subject: RE: follow up
>
>
> City's usage is 14 MGD/Day
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>
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>
>
>
> Eric Cline | Department Manager | State of Michigan
>
> Michigan Department of Treasury | Local Government Financial Services Division | Fiscal Responsibility Section
>
> 430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
>
> Lansing Office (517) 335-2078 | Cell Phone PPI | Traverse City Office (231) 922-5228
>
> E-mail cliner1@michigan.gov
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>
>
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> To: Cline, Richard (Treasury) <cliner1@michigan.gov<mailto:cliner1@michigan.gov>>; Koryzno, Edward (Treasury) <KoryznoE@michigan.gov<mailto:KoryznoE@michigan.gov>>; Byrne, Randall (Treasury) <ByrneR1@michigan.gov<mailto:ByrneR1@michigan.gov>>
> Subject: follow up
> Importance: High
>
>
>
> I am getting ready to leave... what have you learned ?

From: Baird, Richard (GOV)
Sent: Thursday, October 08, 2015 11:06 AM
To: Duncan, Nancy (DTMB)
Subject: RE: letter from John O'Brien

Spoke with Daddow this morning. He thinks the 1.3mm per month is a good number. If anything it could be a little less because General Motors pulled out of the system.

From: Duncan, Nancy (DTMB)
Sent: Thursday, October 08, 2015 10:39 AM
To: Saxton, Thomas (Treasury)
Cc: Workman, Wayne (TREASURY); Khouri, Nick (TREASURY); Wyant, Dan (DEQ); Muchmore, Dennis (GOV); Baird, Richard (GOV); Roberts, John (DTMB); Hollins, Harvey (GOV)
Subject: RE: letter from John O'Brien
Importance: High

We're still carrying $12m as the cost to reconnect, and that's the number the Governor is using too. John would like your assessment of the need given the information in this letter. We plan to send a supplemental request to the Legislature for our $6m share this afternoon.

From: Saxton, Thomas (Treasury)
Sent: Wednesday, October 07, 2015 2:43 PM
To: Wyant, Dan (DEQ); Sygo, Jim (DEQ); Muchmore, Dennis (GOV); Roberts, John (DTMB); Baird, Richard (GOV); Lyon, Nick (DHHS); Hollins, Harvey (GOV)
Cc: Workman, Wayne (TREASURY); Khouri, Nick (TREASURY); Duncan, Nancy (DTMB)
Subject: FW: letter from John O'Brien
Importance: High

Here is the letter from the Genesee Co Drain Commission. My interpretation of the contents would be their estimate is $13.2mm (vs the $12mm discussed this morning).

They included their contract with the City. Sec 5.7 references prevailing rates the City would be charged; that is different than the rates reflected in the $13.2mm. So that contract may need to be modified.

They also raise some other items (under *Procedure to Activate Supply* – p.3) that may have cost implications.

From: Baird, Richard (GOV)
Sent: Monday, October 12, 2015 5:01 PM
To: Darnell Earley (darnell.earley@detroitk12.org)
Subject: FW: flint docs
Attachments: Flint.pdf

From: Workman, Wayne (TREASURY)
Sent: Wednesday, October 07, 2015 4:25 PM
To: Hollins, Harvey (GOV)
Cc: Muchmore, Dennis (GOV); Stanton, Terry A. (Treasury); Saxton, Thomas (Treasury); Wurfel, Sara (GOV); Wurfel, Brad (DEQ); Baird, Richard (GOV)
Subject: FW: flint docs

Harvey, Attached are various documents and press reports of the City Council`s vote in March 2013 to join KWA. We have not located the actual resolution and it is not on the City`s website. It is interesting that the only no vote explained he wanted to just use Flint River water. Wayne

Wayne L. Workman
Deputy State Treasurer
Michigan Department of Treasury

From: Dempkowski, Angela (Treasury)
Sent: Wednesday, October 07, 2015 4:20 PM
To: Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>
Subject: flint docs

Revised pdf

Angela Dempkowski | Senior Executive Management Assistant/Treasury
State of Michigan | 430 W. Allegan Street, 1st Floor | Lansing, MI 48922
(517) 373-4415 | (517) 373-0633 (fax)
dempkowskia@michigan.gov

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EM SUBMISSION NO.: 2013EM041

PRESENTED: 3-28-13

ADOPTED: 3-29-13

BY THE EMERGENCY MANAGER:

RESOLUTION TO PURCHASE CAPACITY FROM KAREGNONDI WATER AUTHORITY

The Karegnondi Water Authority (KWA) is a governmental consortium of cities and counties in southeastern Michigan that was created to build a water pipeline that will provide water from Lake Huron to interested communities in Sanilac, Lapeer, and Genesee counties. The incorporating bodies that created the KWA are Sanilac County, Lapeer County, Genesee County, the City of Flint, and the City of Lapeer.

The City of Flint is currently in a year to year contract with the City of Detroit for the purchase of water. A study was conducted that projected that staying with Detroit will cost the region $2.1 billion over the next 25 years. In contrast, if the region builds its own pipeline, the projected costs are $1.9 billion over the same period. After the initial 25 year period, the projected costs would be less then 25% of the projected water costs from Detroit.

In order to build the pipeline, the KWA needs commitment from its members regarding the capacity that each member will purchase in the pipeline. The KWA is allowed to withdraw 85 million gallons of water per day. Capacity is available to members in increments of 1 million gallons per day known as units. For each unit of capacity that a member purchases, the buyer shall pay to the KWA a one time fee of $32,300.00. Additionally, the buyer shall pay to the KWA not less then $32,300.00 per unit per year until such time as water is made available to the buyer. After water is made available, the buyer shall pay to the KWA an estimated amount not to exceed $355.300.00 per unit per year until such time that the bonds are paid in full. If it is determined that the costs per unit will exceed $355,300.00 the buyer has a right to cancel the contract.

The purchase of capacity along with the payment of other costs necessary to operate the pipeline gives the member a right to water for sale to its customers. The buyer has a right to resell capacity and water rights. Each party entering into a capacity contract shall also be entitled to appoint additional board members equal to the party's percentage share of the total capacity under contract.

It is in the long term best interests of the City of Flint to enter into a contract with the KWA to purchase up to eighteen (18) units of capacity.

IT IS RESOLVED that City officials are authorized to enter into a contract with KWA to purchase up to eighteen (18) units of capacity.

IT IS FURTHER RESOLVED that the City Administrator is authorized to provide KWA information needed to administer the contract and, with approval of the Chief Legal Officer, to make minor (non-material) modifications to the contract.

APPROVED AS TO FORM:

Peter M. Bade, City Attorney

APPROVED AS TO FINANCE:

For **Gerald Ambrose, Finance Director**

EM DISPOSITION:

ENACT 1 **FAIL** _____ **DATED** 3-29-13

Edward L. Kurtz, Emergency Manager

S:\P. Bade\EM2013\Resolutions\KWA.03.28.13.doc

Flint

Flint City Council approves resolution to buy water from Karegnondi, state approval still needed

[http://connect.mlive.com/staff/dadams1/index.html] By Dominic Adams | dadams5@mlive.com [http://connect.mlive.com/staff/dadams1/posts.html]
Follow on Twitter [http://www.twitter.com/dominicadams]
on March 25, 2013 at 10:45 PM, updated March 26, 2013 at 1:28 AM

FLINT, MI – Flint is one step closer to getting its water from Lake Huron as part of the Karegnondi Water Authority.

The vote, **approved 7-1 at the Flint City Council meeting Monday, March 25 [http://www.mlive.com/news/flint/index.ssf/2013/03/flint_city_council_again_delay.html]** , may have set in motion the end to Flint paying to get its water from Detroit.

Under the proposal, Flint would get 16 million gallons per day of raw water from Lake Huron, pipe it to Flint for treatment and then sell it to customers throughout the city. Another 2 million gallons per day would come from the Flint River and will be treated in Flint.

Mayor Dayne Walling said the Department of Environmental Quality must approve Flint's getting 2 million gallons per day from the Flint River.

Tuesday's meeting followed weeks of discussions and special meetings surrounding the resolution.

"We got there," Councilman Joshua Freeman said. "That's the important thing."

There were more than 50 people at Monday's meeting.

"Going with Karegnondi is the best decision. We have no opinion on the economics of the decision," said Rebecca Fedewa, Flint River Watershed Coalition executive director. "If we start drawing water out of the Flint River, we are at risk of having to start releasing water from our reservoirs."

Genesee County Drain Commissioner Jeff Wright said the decision must still be approved by a county water and waste advisory board. The KWA board will then be reconvened for final approval.

Wright said construction could start in May.

State treasury officials still must approve the city council's move because Flint has an emergency financial manager. All expenditures over $50,000 must be approved.

Genesee County Drain Commissioner Jeff Wright has said that Flint would pay roughly $6.4 million annually for water service if it joined the pipeline – a nearly $4 million savings on what it pays Detroit for water.

Walling previously said the **city would save $19 million over eight years [http://www.mlive.com/news/flint/index.ssf/2013/03/flint_city_council_delays_deci.html]** by getting water from the KWA.

"It's a historic night in the City of Flint," Walling said. "The savings will be less with the capacity level approved by city council because there will be increased treatment cost for the river water."

He said the DEQ told the city it needed to get 18 million gallons per day or there would have to be additional work done at Flint's water plant.

Flint's water plant and the Flint River is currently the backup for Flint and Genesee County, however, the plant only operates four times per year.

Councilman Bryant Nolden was the lone dissenting vote.

"It was a protest vote," Nolden said. "I knew they had enough votes. I just feel like the Flint River is our best option."

Karengnondi is the regional water authority that includes Genesee, Lapeer and Sanilac counties and the cities of Flint and Lapeer.

Flint is the second municipality, behind Genesee County, to officially decide to purchase raw water through the KWA. Lapeer city officials said they intend to purchase water, but an agreement has been finalized.

Dominic Adams is a reporter for MLive-Flint Journal. Contact him at ***dadams5@mlive.com*** *or 810-241-8803. Follow him on* ***Twitter [http://www.twitter.com/dominicadams]*** *,* ***Facebook [http://www.facebook.com/dominic.adams.1865]*** *or* ***Google+ [https://plus.google.com/103690672506808729911?rel=author]*** *.*

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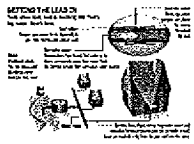
Price of Detroit water for Flint is $1.5 million a month, mayor says

[http://www.mlive.com/news/flint/index.ssf/2015/10/mayor_city_ad



Here's how that toxic lead gets into Flint water

[http://www.mlive.com/news/flint/index.ssf/2015/10/see_step_by_s

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GENESEE COUNTY DRAIN COMMISSIONER'S OFFICE
JEFFREY WRIGHT
COMMISSIONER
G-4608 BEECHER ROAD, FLINT, MI 48532
PHONE (810) 732-1590 FAX (810) 732-1474

FOR IMMEDIATE RELEASE

March 26, 2013

CONTACT: Jeff Wright

810-287-1925

What: Jeff Wright Statement on Flint City Council Approving Resolution to Join KWA.

When: March 26, 2013

Additional Info: Jeff Wright, CEO of the KWA, today praised the Flint City Council for voting to approve a resolution to officially have the City of Flint join the KWA and its' water line.

"I have said from the beginning that this decision must be made by Flint's City Council and Mayor," said Wright. "I appreciate the council voting the way they did, but even more than that, I am glad the residents of Flint were able to have their voices heard via their elected officials." The next step in the process will come with the KWA Board executing the contract for the City.

"The most important aspect from the vote is the fact that we as an Authority can move forward knowing Flint's intentions," said Wright.

Despite Emergency Manager Ed Kurtz publicly supporting the project, Wright had made a vote by council a condition of Flint joining the KWA so the residents would have their say.

"There is a basic tenet that government is best when it has local control. We saw that with the council vote. Nobody, whether they live in Flint, Grand Blanc, Davison, Fenton, or anywhere in Genesee County, should have these types of decisions made by people who live outside of their community," said Wright.

At the next Water and Waste Advisory Board meeting a vote will be taken to award a contract for construction of the intake portion of the water line. All bids were submitted to the board at their last meeting for review.

89 (Rev. 02-11)

STATE OF MICHIGAN
DEPARTMENT OF TREASURY
LANSING

RICK SNYDER
GOVERNOR

ANDY DILLON
STATE TREASURER

Mr. Edward Kurtz
Emergency Manager
City of Flint
1101 South Saginaw Street
Flint, MI 48502

April 11, 2013

Dear Mr. Kurtz:

Thank you for your March 29, 2013 letter, which is attached for reference. As the Emergency Manager for the City of Flint ("Flint" or "City"), you have asked for my concurrence, pursuant to Public Act 436 of 2012, the Local Financial Stability and Choice Act, to authorize a contract in excess of $50,000.00 not subject to competitive bidding. This request was related to the City entering into an agreement with the Karegnondi Water Authority (KWA) for provision of raw water for the City.

In considering your request, I took note of the following facts in support of Flint joining KWA. First, there is widespread support in the City for this move, including the support of the Mayor, the City Council, and the Emergency Manager. Second, this move will provide a unique opportunity for the City and County to partner on an important project, which will hopefully lead to future regional collaboration. Third, the Department of Environmental Quality is supportive of the City participating in the KWA project. Finally, your representations that this deal will lead to substantial savings for the City over the coming decades, savings that are desperately needed to help with the turnaround of the City of Flint.

It is my understanding that the Detroit Water and Sewer Department is making a final best offer to Genesee County and the City of Flint next Monday, April 15, 2013. As such, this approval will be effective at 5 pm on April 16, 2013 after receiving written notice from the City that either no such offer was presented to the county and the City or that an offer was received and was rejected in good faith based upon specified objections.

For the reasons described above and subject to the conditions set forth herein, pursuant to Section 12 (3) of PA 436 of 2012, I am authorizing you to proceed with adopting the resolution and entering into a contract with KWA.

Sincerely,

Andy Dillon
State Treasurer

Flint

Flint council supports buying water from Lake Huron through KWA

[http://connect.mlive.com/staff/dadams1/index.html] By Dominic Adams | dadams5@mlive.com [http://connect.mlive.com/staff/dadams1/posts.html]
Follow on Twitter [http://www.twitter.com/dominicadams]
on March 25, 2013 at 7:17 PM, updated March 26, 2013 at 7:43 AM

FLINT, MI -- Flint residents may soon get their water from Lake Huron.

The Flint City Council voted 7-1 to get 16 million gallons per day from the Karegnondi Water Authority.

"This is about compromise," said Councilman Sheldon Neeley.

Neeley got support from Councilman Joshua Freeman, after the two were previously at odds about the amount the city should withdraw from Lake Huron.

Councilman Bryant Nolden was the lone "no" vote.

"It was a protest vote," Nolden said. "I just feel like the Flint River is our best option."

Genesee County Drain Commissioner said construction of the pipeline could start in May.

The city currently pays to get its water from Detroit.

State treasury officials still must approve the city council's move because Flint has an emergency financial manager. All expenditures over $50,000 must be approved.

*Dominic Adams is a reporter for MLive-Flint Journal. Contact him at **dadams5@mlive.com** or 810-241-8803. Follow him on **Twitter [http://www.twitter.com/dominicadams]** , **Facebook [http://www.facebook.com/dominic.adams.1865]** or **Google+ [https://plus.google.com/103690672506808729911?rel=author]** .*

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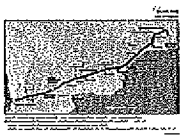
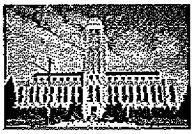


Enbridge can begin piping tar sands oil along Lake Ontario north shore

[http://www.mlive.com/news/index.ssf/2015/10/enbridge_can_beg



Former Detroit American Motors Corp. headquarters being auctioned; starting bid $500

[http://www.mlive.com/news/detroit/index.ssf/2015/10/former_detr

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From: Baird, Richard (GOV)
Sent: Wednesday, October 21, 2015 3:34 PM
To: Ken Sikkema; Chris Kolb; Matt Davis; Lawrence Reynolds; Eric Rothstein
Cc: Anderson, Madhu (DEQ)
Subject: Fwd: Draft Scope - for member review
Attachments: Flint Water Task Force.draftscope.211015.docx

From Madhu...

Sent from my Verizon Wireless 4G LTE DROID
---------- Forwarded message ----------
From: "Anderson, Madhu (DEQ)" <AndersonM30@michigan.gov>
Date: Oct 21, 2015 1:37 PM
Subject: Draft Scope - for member review
To: "Baird, Richard (GOV)" <bairdr@michigan.gov>
Cc: "Wyant, Dan (DEQ)" <WyantD@michigan.gov>,"Lyon, Nick (DHHS)" <LyonN2@michigan.gov>,"VanSickle, Michele (GOV)" <vansicklem2@michigan.gov>,"Murray, David (GOV)" <MurrayD1@michigan.gov>

Rich - The Flint Water Task Force members asked for a draft scope prior to the announcement being made this afternoon. Hopefully, I captured their intent in the attached document. Could you forward this document to the members after you have had a chance to review?

Thanks,

Madhu R. Anderson
Deputy Director, Economic & Strategic Initiatives
☎ 517 284 6702 | 517 290 9653
andersonm30@michigan.gov
DEQ

(DRAFT)
FLINT WATER ADVISORY TASK FORCE
AFTER-ACTION REVIEW

The Flint Water Task Force is an independent advisory panel appointed by Governor Rick Snyder charged with reviewing actions regarding water use and testing in Flint and with offering recommendations for future guidelines to protect the health and safety of all state residents.

The task force expects to summarize its work in a report to be presented to Governor Rick Snyder within ninety (90) days.

GOALS

The Flint Water Task Force's goals are as follows:

- Complete a thorough review of all steps taken by state and local officials regarding the decision to switch the City of Flint's water source to the Flint River from the Detroit Water and Sewerage Department's system (DWSD).
  - Produce a timeline of actions
  - Establish why each action was taken

- Review the roles of the federal, state, and local officials in the decision-making process
  - Identify best practices for federal, state, and local officials to work together in future similar situations
  - Evaluate where coordination between these entities could have been better, and how it could be improved

- Review federal, state, and local actions and protocols
  - Determine whether the proper procedures were followed
  - Identify which procedures should be changed

- Monitor and review the process, procedures, and protocols being followed as the City of Flint returns to the DWSD system
  - Ensure that proper corrosion controls and testing are in place
  - Highlight the appropriate actions that the City of Flint should follow when the future switch is made to the Karegnondi Water Authority's system

- Assess future practices
  - Highlight practices that should change for communities in similar situations
  - Recommend changes in law, procedure, or practice to ensure all Michiganders are drinking safe water

From: Baird, Richard (GOV)
Sent: Monday, November 16, 2015 12:01 PM
To: 'Ken Sikkema'
Subject: FW: Rep. Kildee Update Letter and Health Fund Request
Attachments: 111315 Update and Health Fund Request (Snyder).pdf; 10-6-2015 Response - Kildee.pdf

Ken:

Bill McBride in our DC office told me of this letter received from Congressman Kildee and I asked to receive a copy to share with you and the TF. Also attached is a copy of the EPA's letter to Congressman Kildee related to funding sources for lead piping remediation. The State is working very closely with the City and in fact had a very good meeting with Mayor Weaver last week.

Regards,

Rich

From: Mcbride, Bill (GOV)
Sent: Monday, November 16, 2015 9:31 AM
To: Baird, Richard (GOV)
Subject: FW: Rep. Kildee Update Letter and Health Fund Request

DANIEL T. KILDEE
5TH DISTRICT, MICHIGAN

COMMITTEE ON
FINANCIAL SERVICES

SUBCOMMITTEE ON
HOUSING AND INSURANCE

SUBCOMMITTEE ON
MONETARY POLICY AND TRADE

SENIOR WHIP

DEMOCRATIC POLICY AND
COMMUNICATIONS COMMITTEE

Congress of the United States
House of Representatives
Washington, DC 20515

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WWW.DANKILDEE.HOUSE.GOV
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@REPDANKILDEE

November 13, 2015

Governor Rick Snyder
Executive Office of the Governor
P.O. Box 30013
Lansing, Michigan 48909

Governor Snyder:

I would like to provide you an update with some of the work we are doing in response to your letter on October 2, 2015 letter. I also have three requests of the state that are necessary to provide relief to the victims of the Flint water crisis.

First, Senator Stabenow, Senator Peters and I wrote a letter to the U.S. Environmental Protection Agency (EPA) asking for clarification on whether federal law permits states to use Safe Drinking Water State Revolving Funds (Revolving Funds) to finance the replacement of privately owned lead water service lines (attached). The EPA responded that the Revolving Funds can in fact be used for this purpose. My office immediately notified both your office and the Michigan Department of Environmental Quality of this fact.

Secondly, the three of us also wrote to Secretary Tom Vilsack requesting that the U.S. Department of Agriculture (USDA) provide greater clarification on the availability of "Ready to Feed" formula for recipients of Special Supplemental Nutrition Program for Women, Infants and Children (WIC) in Flint. Additionally, the letter asks to identify resources to improve the nutrition of Flint residents specifically as it relates to lead, because a certain diet can reduce some of the impact of exposure. The USDA is currently reviewing the letter.

Third, I have been working with the EPA on important revisions to the Lead and Copper Rule that would prevent a public health crisis like the one in Flint from happening again in other communities. I will be providing testimony at a meeting of the National Drinking Water Advisory Council next Wednesday, November 18 on what we have learned firsthand in Flint and the necessary improvements to the Lead and Copper Rule.

I will continue to pursue all of these avenues in order to find assistance for the people of Flint. There are, however, additional steps that need to be taken to remediate the damage done to the people of Flint due to the failures at the state government level, alongside the forgiveness of Flint's Revolving Funds loan debt if that becomes available. I urge state and local partners to work in coordination to fulfill the following requests.

- First, I request that the state of Michigan use its Revolving Funds and other state resources such as the rainy day and general funds to repair the damage done to Flint's water distribution system.

Due to the corrosive nature of the water, conservative estimates show there has been hundreds of millions of dollars of damage done to Flint's water distribution system. The damage to the system will increase maintenance costs resulting in higher rates for Flint water users, who already are burdened by the highest water rates in the state. Furthermore, the presence of over 15,000 lead service lines continues to threaten the quality of the water and creates the potential for future lead exposure through drinking water. As stated previously, the EPA has said that using the Revolving Funds for this purpose is allowed under federal law, and I request the state do so.

- Second, I request the state create a fund for ongoing assistance to the people of Flint to respond to the impacts of lead exposure.

The effects of lead are serious and permanent, with especially harmful impacts on young children and those with weakened immune systems. In discussions with health professionals, they have expressed the need for significant investments in the local health system in order to respond to the widespread exposure of lead to the people of Flint, including monitoring of future lead exposure. This fund should include support for, at a minimum, continuous health monitoring, early education programs, nutrition education, support services for children to succeed in school, and continued exposure prevention efforts. The investments we make now to combat the negative impacts of lead exposure will pay dividends in avoided costs in the future.

- Finally, I again ask that the state immediately reverse course and rescind Flint's obligation to provide $2 million for the cost of connecting to the Detroit water system and refund any money the city of Flint has had to pay.

Requiring a financially distressed city and its people to pay for the state's failures is an abdication of clear responsibility by the state. The state-appointed emergency manager was in charge of the city of Flint during the time that the decision to leave the Detroit system was made. The state – not Flint – created this water crisis, and the state needs to pay to fix it. The $2 million Flint spent to reconnect to the Detroit water system could be used for many other essential services in Flint, such as hiring policemen and firefighters, improving schools and maintaining parks.

In addition to state investments, I encourage the state to request assistance from federal agencies. They have extensive experience working with health, education and nutrition systems nationwide and could provide critical resources to state officials. Specifically, the Centers for Disease Control and Prevention has offered resources if the state requests it. I will work to support any efforts for federal assistance the state makes.

I look forward to working with the state and federal governments to not only provide clean drinking water to the people of Flint immediately, but also repair the damage done to the city's water system and give local health professionals the resources they need to combat the long term impacts of lead exposure.

Sincerely,

Dan Kildee
MEMBER OF CONGRESS

Cc:
Senate Republican Leader Arlen Meekhof
Senate Democratic Leader Jim Ananich
Speaker of the House Kevin Cotter
House Democratic Leader Tim Greimel

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF WATER

OCT 2 8 2015

The Honorable Dan Kildee
House of Representatives
Washington, D.C. 20515

Dear Congressman Kildee:

Thank you for your October 6, 2015, letter asking whether federal law permits a state to use the Drinking Water State Revolving Fund to finance the replacement of privately owned lead water service lines.

Drinking Water State Revolving Fund loans can be used to finance lead service line replacement on public and private property, provided the loans are made to an eligible entity in accordance with the Safe Drinking Water Act to protect public health, and all other Drinking Water State Revolving Fund requirements are met. The eligible entity in this case is the Flint community water system. The U.S. Environmental Protection Agency is actively discussing the option of using the Drinking Water State Revolving Fund for lead service line replacement with the Michigan Department of Environmental Quality and the City of Flint.

Again, thank you for your letter. If you have further questions, please contact me or your staff may contact Cathy Davis in the EPA's Office of Congressional and Intergovernmental Relations at Davis.CatherineM@epa.gov or (202) 564-2703.

Sincerely,

Kenneth J. Kopocis
Deputy Assistant Administrator

From: Baird, Richard (GOV)
Sent: Monday, December 21, 2015 7:51 PM
To: Nick Lyon
Subject: Fwd: DHHS

Sent from my Verizon Wireless 4G LTE DROID
---------- Forwarded message ----------
From: Ken Sikkema <ksikkema@pscinc.com>
Date: Dec 21, 2015 7:39 PM
Subject: Fwd: DHHS
To: "Baird, Richard (GOV)" <bairdr@michigan.gov>
Cc:

FYI...

---------- Forwarded message ----------
From: <chris@environmentalcouncil.org>
Date: Monday, December 21, 2015
Subject: DHHS
To: Ken Sikkema <ksikkema@pscinc.com>

Virginia Tech Researcher Claims Stonewalling On Lead Data

The Department of Health and Human Services had data that showed there were elevated lead levels in Flint's water, but delayed in releasing that data to others for review, Virginia Tech professor Marc Edwards said in an article posted to his website documenting the city's water crisis.

Department officials agreed and said the experience led to changes in how they examine data.

Mr. Edwards said the department had data from shortly after Flint changed its water source that showed a spike in blood lead levels in children in two at-risk neighborhoods, but did not disclose that data until September 2015.

"They discovered scientifically conclusive evidence of an anomalous increase in childhood lead poisoning in summer 2014 immediately after the switch in water sources, but stood by silently as Michigan Department of Environmental Quality (MDEQ) officials repeatedly and falsely stated that no spike in blood lead levels (BLL) of children had occurred," he said in the post.

DHHS spokesperson Jennifer Eisner agreed the department had data that showed the spike, but said its analysis at the time overlooked factors that, in retrospect, would have shown there was a water quality problem.

"When initially looking at the citywide and county elevated blood lead level numbers, the increase appeared to be consistent with the seasonal fluctuation seen in the summer months," Ms. Eisner said. "It wasn't until the Hurley report came out that our epidemiologists took a more in-depth look at the data by ZIP code, controlling for seasonal variation, and confirmed an increase outside of normal trends. As a result of this process, we have determined that the way we analyze data collected needs to be thoroughly reviewed."

Mr. Edwards said DHHS officials also stonewalled him on getting access to that data.

He said data he had gotten easily in 2006 documents for a similar review took several weeks to receive after his request sent September 2. When he did finally receive the data, he said it was a version that omitted the lead level spike from summer 2014 that the department had created in July.

He said a series of emails he received under a recent Freedom of Information Act request showed and intention by DHHS officials to keep the reports from the public.
"Our FOIA reveals a shocking DHHS graph created in October 2015. It shows the statistically significant spike in blood lead that occurred in summer 2014 - the scientific result that DHHS has never publicly acknowledged," Mr. Edwards said in his post.
Ms. Eisner said the department has worked to make the data available. "Summary reports outlining blood lead level testing are posted online on a bi-weekly basis, and we work closely with local partners to fulfill data requests as we receive them," she said.

- See more at:
http://www.gongwer.com/programming/news.cfm?article_id=542490102#sthash.o7NcxHOQ.dpuf

Sent from my iPad

--

Ken Sikkema
Senior Policy Fellow
Public Sector Consultants
PH: 517-484-4954
ksikkema@pscinc.com

From: Baird, Richard (GOV)
Sent: Tuesday, December 22, 2015 9:37 AM
To: Ken Sikkema; Chris Kolb
Subject: FW: Edwards Report Response

From: Lyon, Nick (DHHS)
Sent: Tuesday, December 22, 2015 1:32 AM
To: Baird, Richard (GOV)
Subject: Fwd: Edwards Report Response

Here was our public response. You can share with Ken and Chris. I am also willing to talk to them about this.

Begin forwarded message:

> **From:** "Eisner, Jennifer (DHHS)" <EisnerJ@michigan.gov>
> **Date:** December 21, 2015 at 3:46:05 PM EST
> **To:** "Lyon, Nick (DHHS)" <LyonN2@michigan.gov>
> **Subject: RE: Edwards Report Response**
>
> The Michigan Department of Health and Human Services has consistently provided information regarding blood lead levels in the city of Flint.
>
> When initially looking at the citywide and county elevated blood lead level numbers, the increase appeared to be consistent with the routine seasonal fluctuation seen in the summer months. It wasn't until the Hurley report came out that our epidemiologists took a more in-depth look at the data by ZIP code, controlling for seasonal variation, and confirmed an increase outside of normal trends. As a result of this process, we have determined that the way we analyze data needs to be thoroughly reviewed. Additionally, Gov. Rick Snyder has created a Flint Water Task Force to review all city, state and federal responses and actions and is expected to make recommendations moving forward.
>
> Our department is focused on ensuring that appropriate case management and follow up is occurring in Flint. Summary reports outlining blood lead level testing are posted online on a bi-weekly basis, and we are working closely with local partners to fulfill data requests as we receive them.
>
> Regarding the FOIA, Mr. Edwards received all of the requested documents, with personal information redacted, on Friday, December 18.
>
> Jennifer Eisner
> Public Information Officer
> Michigan Department of Health and Human Services
> Office: 517-241-2112 or EisnerJ@michigan.gov
> Cell: PPI

From: Baird, Richard (GOV)
Sent: Tuesday, December 22, 2015 4:27 PM
To: Holland, Meegan (GOV); 'Murray, David (GOV)'
Subject: FW: Meeting with Dr. Mona Hanna-Attisha and Flint Water
Attachments: #flintwatercrisis Secondary Prevention Recommendations 121415.pdf

These are all the areas where long term vigilance needs to be happening.

-----Original Message-----
From: Mona Hanna-Attisha [mailto:MHanna1@hurleymc.com]
Sent: Tuesday, December 15, 2015 7:40 AM
To: Lyon, Nick (DHHS)
Cc: Baird, Richard (GOV); Laurence Reynolds; Matthew M. Davis; Chris Kolb; Ken Sikkema; Chris De Witt; Eric Rothstein; Hollins, Harvey (GOV)
Subject: RE: Meeting with Dr. Mona Hanna-Attisha and Flint Water

attached

-----Original Message-----
From: Lyon, Nick (DHHS) [mailto:LyonN2@michigan.gov]
Sent: Tuesday, December 15, 2015 6:26 AM
To: Mona Hanna-Attisha
Cc: Baird, Richard (GOV); Laurence Reynolds; Matthew M. Davis; Chris Kolb; Ken Sikkema; Chris De Witt; Eric Rothstein; Hollins, Harvey (GOV)
Subject: Re: Meeting with Dr. Mona Hanna-Attisha and Flint Water

Thank you for the presentation and your approach to this. When you can please share a version of the presentation I can pass in to Sue, Eden and the others in my Population Health area.

Nick

> On Dec 14, 2015, at 7:05 PM, Mona Hanna-Attisha <MHanna1@hurleymc.com> wrote:
>
>
> Mr. Baird and all the other guys,
>
> It was a pleasure meeting everyone and a privilege to present to you all. As I said, we have an incredible and unique opportunity to mitigate the impact of this population-wide exposure. If we act now, proactively, we can buffer our kids from the life-altering impacts of lead poisoning.
>
> Flint has many claims to fame (we put the world on wheels, we birthed Mr. Baird!, etc); and now, with your leadership, we can continue to build generations of strong, smart, and healthy children.
>
> If I can be of any further assistance, please don't hesitate to contact me. Email or cell PPI
>
> Thanks again, Mona

>
> Mona Hanna-Attisha MD MPH FAAP
> Program Director Pediatric Residency
> Hurley Children's Hospital at Hurley Medical Center Michigan State
> University College of Human Medicine Department of Pediatrics and
> Human Development Mhanna1@hurleymc.com<mailto:Mhanna1@hurleymc.com>
> _____
> From: Baird, Richard (GOV) [bairdr@michigan.gov]
> Sent: Thursday, December 10, 2015 2:27 PM
> Required: Baird, Richard (GOV); Laurence Reynolds; Matthew M. Davis;
> Chris Kolb; Ken Sikkema; Chris De Witt; 'Eric Rothstein'; Lyon, Nick
> (DHHS); Grijalva, Nancy (DHHS); Mona Hanna-Attisha
> Subject: Meeting with Dr. Mona Hanna-Attisha and Flint Water
> When: Monday, December 14, 2015 11:00 AM-12:00 PM.
> Where: Governor's Conference Room, 2nd Floor Romney Building, 111 S.
> Capitol Ave., Lansing, MI 48933
>
> Good Morning,
>
> This is to confirm the meeting with Rich Baird on Monday, December 14 at 11:00 a.m. in the Governor's Conference room, second floor Romney Building, 111 S. Capitol Ave. Lansing, MI 48933.
>
> We are located at the George W. Romney Building, 111 S. Capitol
> Avenue, Lansing. The Romney Building is located directly across the
> street (Capitol Avenue) from the Capitol Building. There is some
> metered parking around the building. The closest parking facility is
> one block south at the corner of Capitol Avenue and Allegan Street
> (enter the parking facility from Capitol Avenue).
> https://www.parkme.com/lot/93032/tower-parking-ramp-lansing-mi
>
> You will also want to have a picture I.D. handy for security in the Romney Building. Please let security know who you have a meeting with, they will call me and then send you up to the second floor.
>
> Please let me know if you have any questions.
>
> Thank you!
>
> Virginia Manolakoudis
> Executive Assistant for Richard Baird
> Executive Office of Governor Rick Snyder
> (517) 241-5621
> ManolakoudisV@michigan.gov<mailto:ManolakoudisV@michigan.gov>
>
>
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>
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>
> <#flintwatercrisis Secondary Prevention Recommendations 121415.pdf>

#flintwatercrisis

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Background & Secondary Prevention

Mona Hanna-Attisha MD MPH FAAP
Hurley Children's Hospital
Michigan State University College of Human Medicine

Agenda

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- Flint Water Timeline
- Lead Facts
- Hurley Research Findings
- Introduction to Toxic Stress
- Next steps – Secondary Prevention

Flint Drinking Water Crisis

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- Financial Emergency Managers
- Water switch to Flint River (April 2014)
- Fecal coliform and boil advisories *3 (Sept 2014)
- GM stopped using Flint water – corroding parts (Oct 2014)
- Disinfectant byproducts TTHM (Jan 2015-Sept 2015)

Flint Drinking Water Crisis

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- Perfect storm for lead leaching
  - Flint water more corrosive
  - Lack of corrosion control
  - Aging infrastructure (lead plumbing)
  - Decreased water use - population loss, high water rates

Flint Drinking Water Crisis

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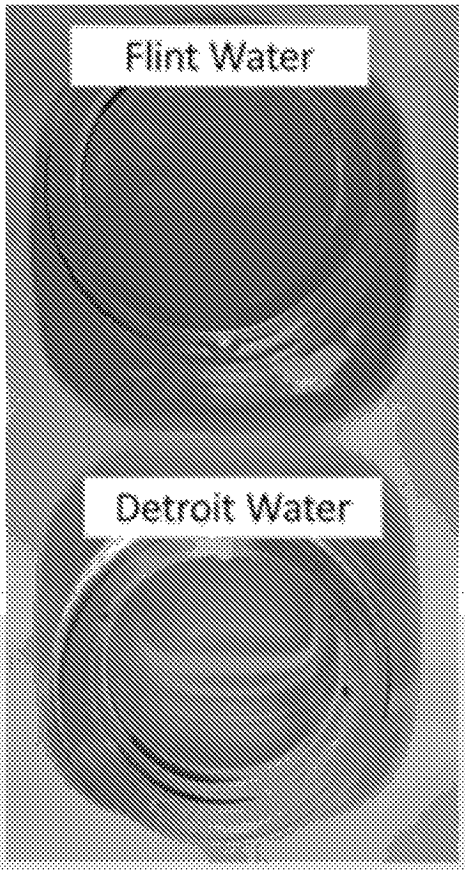
- High lead levels detected, EPA contacted (February 2015)
- Leaked EPA memo (June 2015)
  - LeeAnn Walters WLL 13,200 ppb (toxic waste)
- Dr Marc Edwards, Virginia Tech Research (Aug 2015)
  - Flintwaterstudy.org
  - Corrosion & water lead
- Hurley Research (Sept 2015)



https://www.wsws.org/en/articles/2015/09/26/flin-s26.html

Why do we care about lead?

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- Lead is a potent neurotoxin with lifelong, multigenerational impacts
- Blood lead levels (BLL) 5 ug/dL or more considered elevated blood lead levels (EBLL)
- Just a few years ago (2012), 10 ug/dL was cutoff
- NO safe blood lead level
- Disproportionately impacts low income and minority children
- Primary prevention is most important

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Primary Prevention

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- "Because no measurable level of blood lead is known to be without deleterious effects, and because once engendered, the effects appear to be irreversible in the absence of any other interventions, public health, environmental and housing policies should encourage PREVENTION of all exposure to lead."

"Low Level Lead Exposure Harms Children: A Renewed Call for Primary Prevention." 2012 CDC Advisory Committee on Childhood Lead Poisoning Prevention.

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Impact on cognition

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- Vast evidence supports increased likelihood of:
  - Decrease in IQ
    - An increase in BLL from 1 to 4 ug/dL, drops mean IQ -3.7 points
  - Small change in mean IQ, shifts entire population IQ distribution
    - Reduces high achievers IQs (>130) and increases kids with low IQs (<70)
    - Implications for early intervention, special education services, employment, incarceration, life achievement, etc

Lanphear BP et al., Low-level environmental lead exposure and children's intellectual function: an international pooled analysis. Environ Health Perspect. 2005. 113:894-9.
Fewtrell LJ, Pruss-Ustun A, Landrigan P, and Ayuso-Mateos JL, Estimating the global burden of disease of mild mental retardation and cardiovascular diseases from environmental lead exposure. Environmental Research, 2004. 94:120-33.

Impact on behavior

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- Increased likelihood of :
  - ADHD behaviors
  - Delinquent behaviors and arrests
  - Total arrests and increased rates of arrests involving violent offenses
  - Other health effects: hematologic, cardiovascular, immunologic, endocrine, etc

Wright, JP, KN Dietrich, MD Ris, et al. 2008. Association of prenatal and childhood blood lead concentrations with criminal arrests in early adulthood. *PLoS Med* 5(5): e101
Chen, A, B Cai, KN Dietrich, et al. 2007. Lead exposure, IQ, and behavior in urban 5-7 year-olds: Does lead affect behavior only by lowering IQ? *Pediatrics* 119(3): e650-e658.
Needleman, HL, C McFarland, RB Ness, et al. 2002. Bone lead levels in adjudicated delinquents: A case control study. *Neurotoxicology and Teratology* 24(6):711-717.

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Cost

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- "For childhood lead poisoning, $5.9 billion in medical care costs, as well as an additional **$50.9 billion** (sensitivity analysis: $44.8–$60.6 billion) per year in lost economic productivity resulting from reduced cognitive potential from preventable childhood lead exposure."

- "The present value of Michigan's economic losses attributable to lead exposure in the 2009 cohort of 5 year-olds ranges from $3.19 (using U.S. blood lead levels) to **$4.85 billion** (using Michigan blood lead levels) per year in loss of future lifetime earnings."

Leonardo Trasande and Yinghua Liu. Reducing The Staggering Costs Of Environmental Disease In Children, Estimated At $76.6 Billion In 2008. *Health Affairs*, 30, no.5 (2011):863-870

The Price of Pollution: Cost Estimates of Environment-Related Childhood Diseases in Michigan. 2010 Report by Michigan Network of Children's Environmental Health

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Lead in Water

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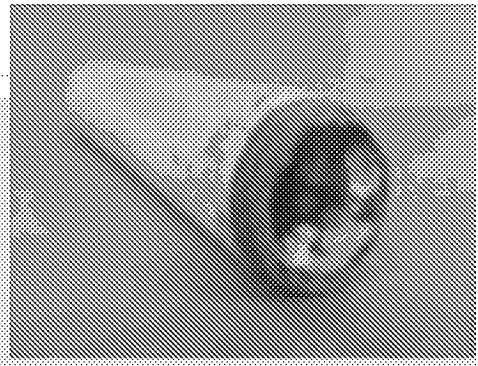
- Not what medicine/public health used to
  - Lead paint obsessed
  - "drinking through a lead painted straw"
- Soluble metal – ingestion via particulate or dissolved in water
- Drinking and cooking risks



Lead in water

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- Disproportionally impacts developmentally-vulnerable formula-fed infants
  - For about 25% of infants drinking formula made from tap water at 10 ppb, blood lead would rise >= 5 ug/dL
- Significant risk to unborn babies
  - Increase in fetal deaths and reduced birth weights

Triantafyllidou, S., Gallagher. D. and Edwards, M. Assessing risk with increasingly stringent public health goals: the case of water lead and blood lead in children. Journal of Water and Health. doi: 10.2166/wh.2013.067 58-68 (2014).
Edwards, M. Fetal Death and Reduced Birth Rates Associated with Exposure to Lead-Contaminated Drinking Water. Env. Sci. and Tech. 2013 DOI: 10.1021/es4034952

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Hurley Children's RESEARCH FINDINGS

Sept 24

Medical Community Press Conference

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Methods

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- HMC IRB approved
- Data from all blood lead levels processed at Hurley Medical Center
- ZIP code based
- Two periods of comparison (same seasons):
  - PRE-SWITCH: January 1, 2013 – September 15, 2013
    - WATER SWITCH APRIL 26, 2014
  - POST-SWITCH: January 1, 2015 – September 15, 2015
- Analyzed % Elevated Blood Lead (EBLL)
  - EBLL = Blood lead Levels >= 5 ug/dL

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Initial Research Results

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- Zip code based (in media)

	ALL FLINT ZIPS (n=1746)	HIGH-WLL FLINT ZIPs (48503-48504) (n=742)	NON-FLINT ZIPS (n=1670)
PRE-SWITCH	2.1%	2.5%	0.6%
POST-SWITCH	4.0%	6.3%	1.0%

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GEOcoded Analysis

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- N= 1473 for Flint water children (pre n=736, post n=737)
- N= 2202 for non-Flint water children (pre n=1210, post n=992)

Flint results for children 5 years and under:

- PRE-SWITCH % EBLL: **2.4%**
- POST-SWITCH % EBLL: **4.9%**
- **p < 0.05; STATISTICALLY SIGNIFICANT CHANGE**

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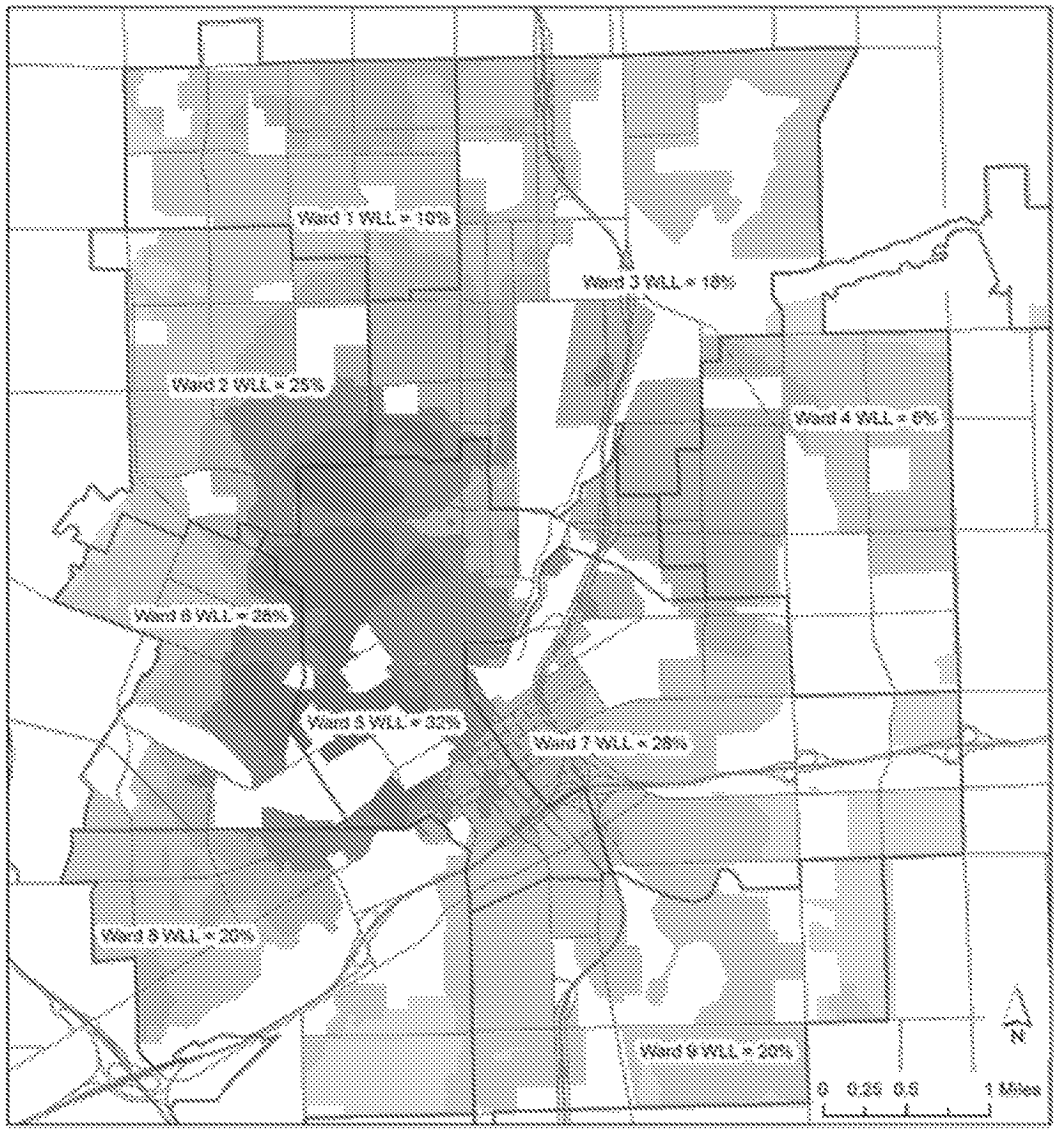

- Focus on high WLL wards (5, 6, 7); ie., those with high water lead levels

Results:

- PRE-SWITCH % EBLL: **4.0%**
- POST-SWITCH % EBLL: **10.6%**
- **$p < 0.05$; STATISTICALLY SIGNIFICANT CHANGE**

- Note: Hot spots between wards/zips

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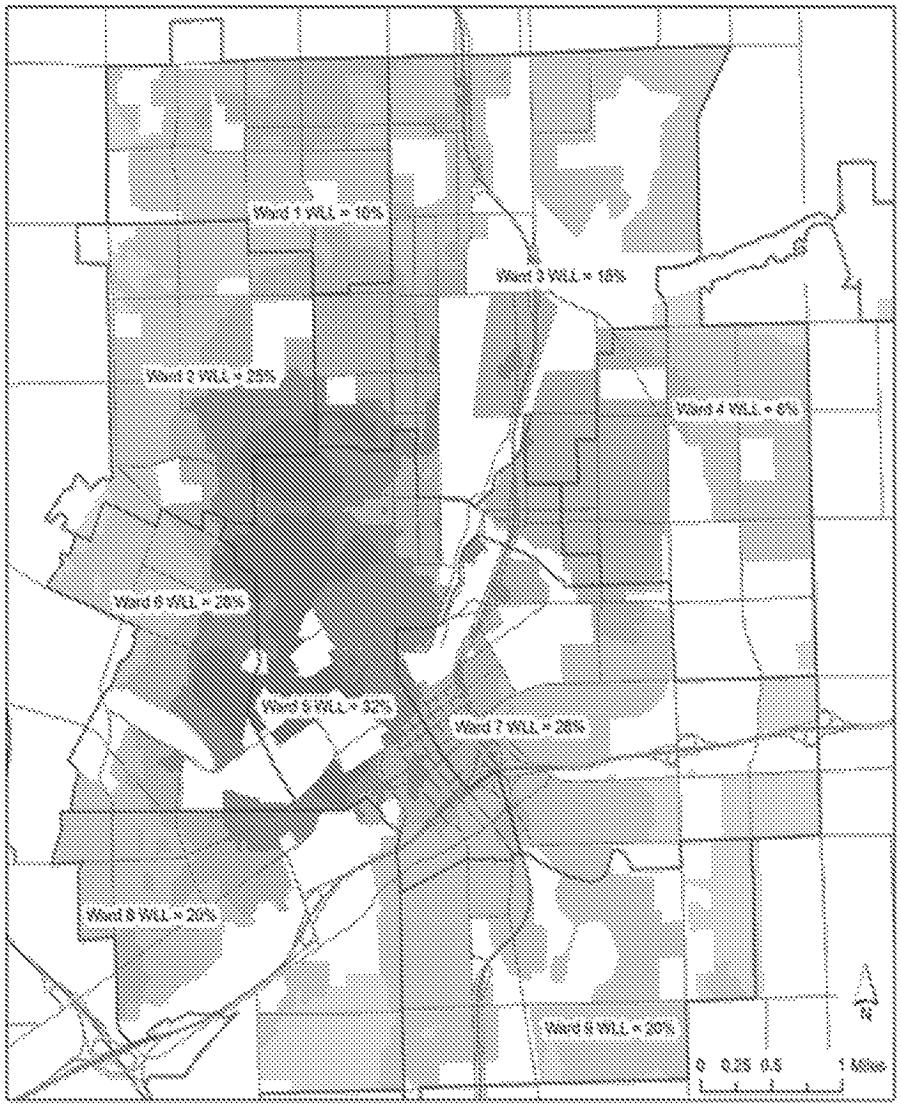
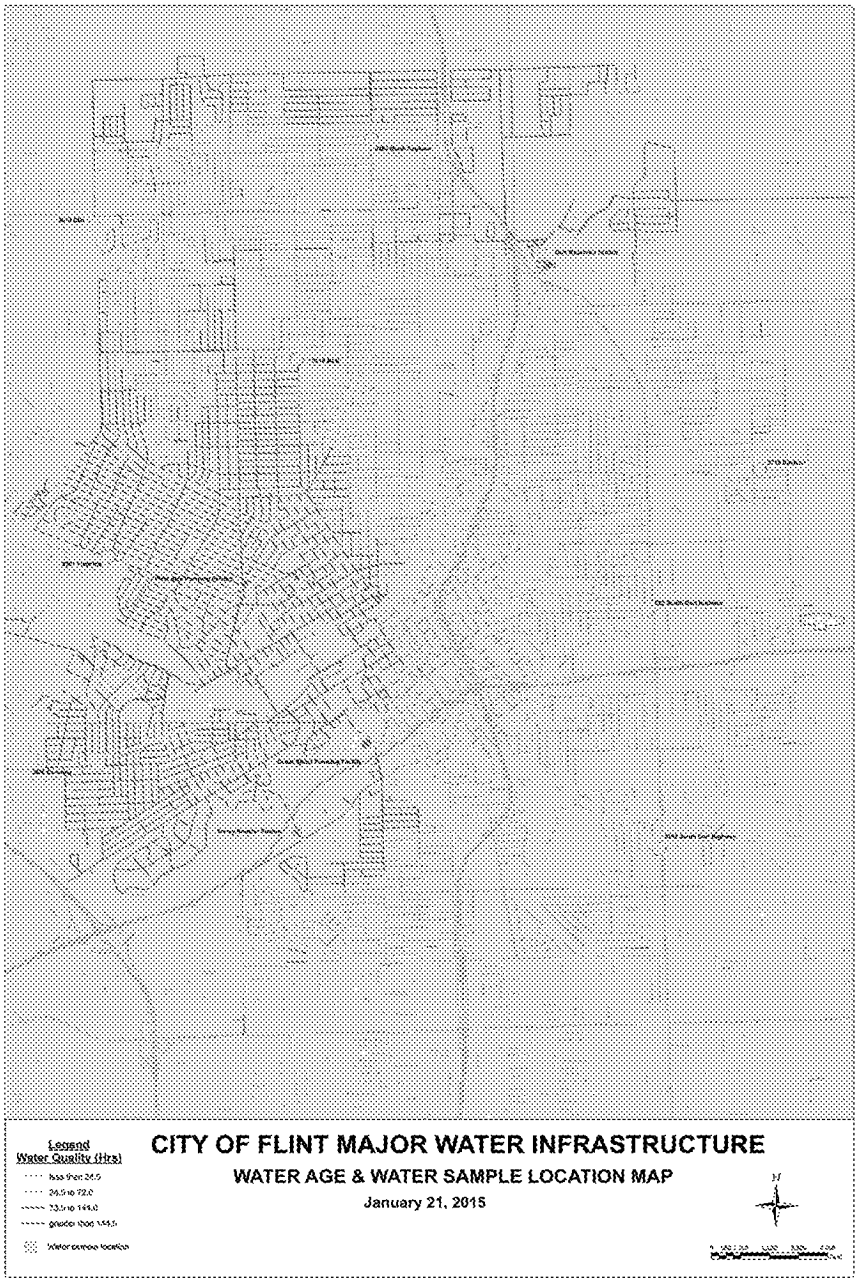

Ward 1 WLL = 16%
Ward 3 WLL = 18%
Ward 2 WLL = 25%
Ward 4 WLL = 6%
Ward 6 WLL = 26%
Ward 5 WLL = 32%
Ward 7 WLL = 28%
Ward 8 WLL = 20%
Ward 9 WLL = 30%
0 0.25 0.5 1 Miles
Flint City Wards
Major Streets
"Ward Y WLL = X.X%"
% of ward where any water sample exceeded 15 ppb
Predicted BLL based on Ordinary Kriging Geostatistical Analysis
0.7 - 0.75
0.76 - 1
1.01 - 1.25
1.26 - 1.5
1.51 - 1.75
1.76 - 2
2.01 - 2.25
2.26 - 2.5
2.51 - 2.75
2.76 - 3.36
*Non-residential zones screened from results


Legend
Water Quality (Hrs)
less than 24.0
24.0 to 72.0
72.0 to 144.0
greater than 144.0
Water service location
CITY OF FLINT MAJOR WATER INFRASTRUCTURE
WATER AGE & WATER SAMPLE LOCATION MAP
January 21, 2015

Pre/Post EBL

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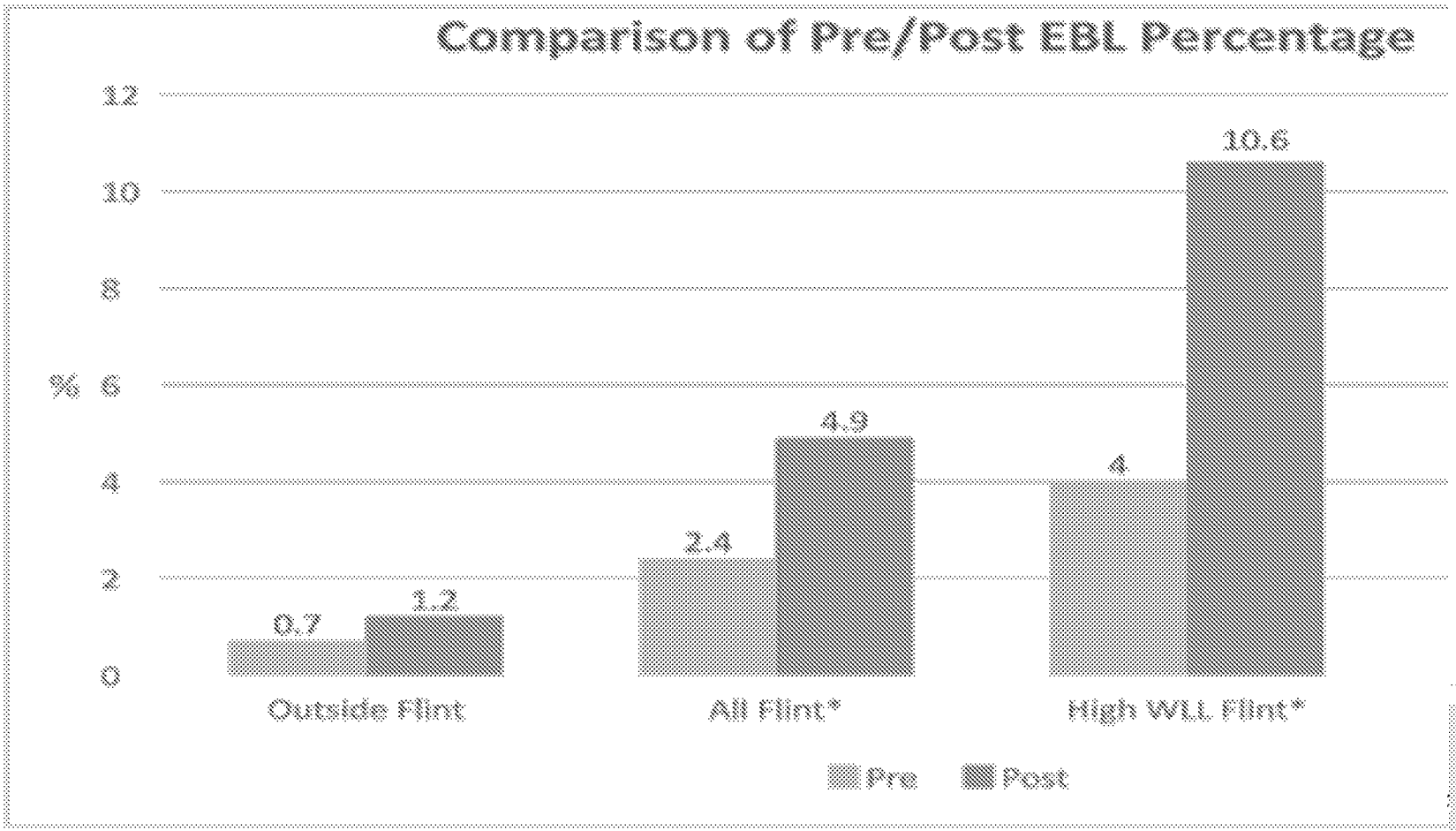

*p<0.05

Research results

- % of children with EBLL in Flint zips increased
  - Most striking increase in areas with highest water lead levels
- **Results significantly underestimate exposure:**
  - Infants not screened for lead
  - BLL may have peaked before being measured (blood half life 20-30 days)
  - Kids exposed in different settings throughout city
- Widened disparities
- Failure of primary prevention

What happened next?

- Sept 25 City of Flint Lead Health Advisory
- Sept 29 GCHD Health Advisory
- Oct 1 GCHD Public Health Emergency
- Oct 2 State filter program, increased water testing, expedited corrosion control
  - Oct 3 First filter distribution
- Oct 8 Three schools toxic WLL, announced reconnection to DWSD
- Oct 16 Water switched back to DWSD

Epigenetics

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Wayne State Researchers Discover Evidence That Lead Exposure in Mothers Can Affect Future Generations

Released: 2-Oct-2015 3:05 PM EDT
Source Newsroom: Wayne State University Division of Research

"A team of researchers at Wayne State University have discovered that mothers with high levels of lead in their blood not only affect the fetal cells of their unborn children, but also their grandchildren. "

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Now

- Preventable population-wide exposure
- Community traumatized
- Loss of trust in government and agencies
  - In 2015, in the middle of the great lakes, no guarantee of safe drinking water
- Ongoing public health emergency

Exposed Population

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- Currently identifying/labeling exposed population
- Cohort includes all children less than 6 years who at any time lived in Flint water limits (geocoded) from April 2014 to end date unknown (extend 9 months for fetal exposure).
- Per census data, approx. 8,000-9,000 children

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Quick Introduction to ACEs/Toxic Stress…

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Adverse Childhood Experiences (ACEs)

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- ACEs are potentially traumatic events that can have negative, lasting effects on health and well-being.
- Also referred to as toxic stress or childhood trauma.
- As number of ACEs increase, the risk for health problems increase in a strong and graded fashion.
- An ACE score of 6 or more results in a 20 year decrease in life expectancy.

- CDC ACE study
  - Kaiser Permanente from 1995 to 1997 with more than 17,000 participants.

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Toxic Stresses

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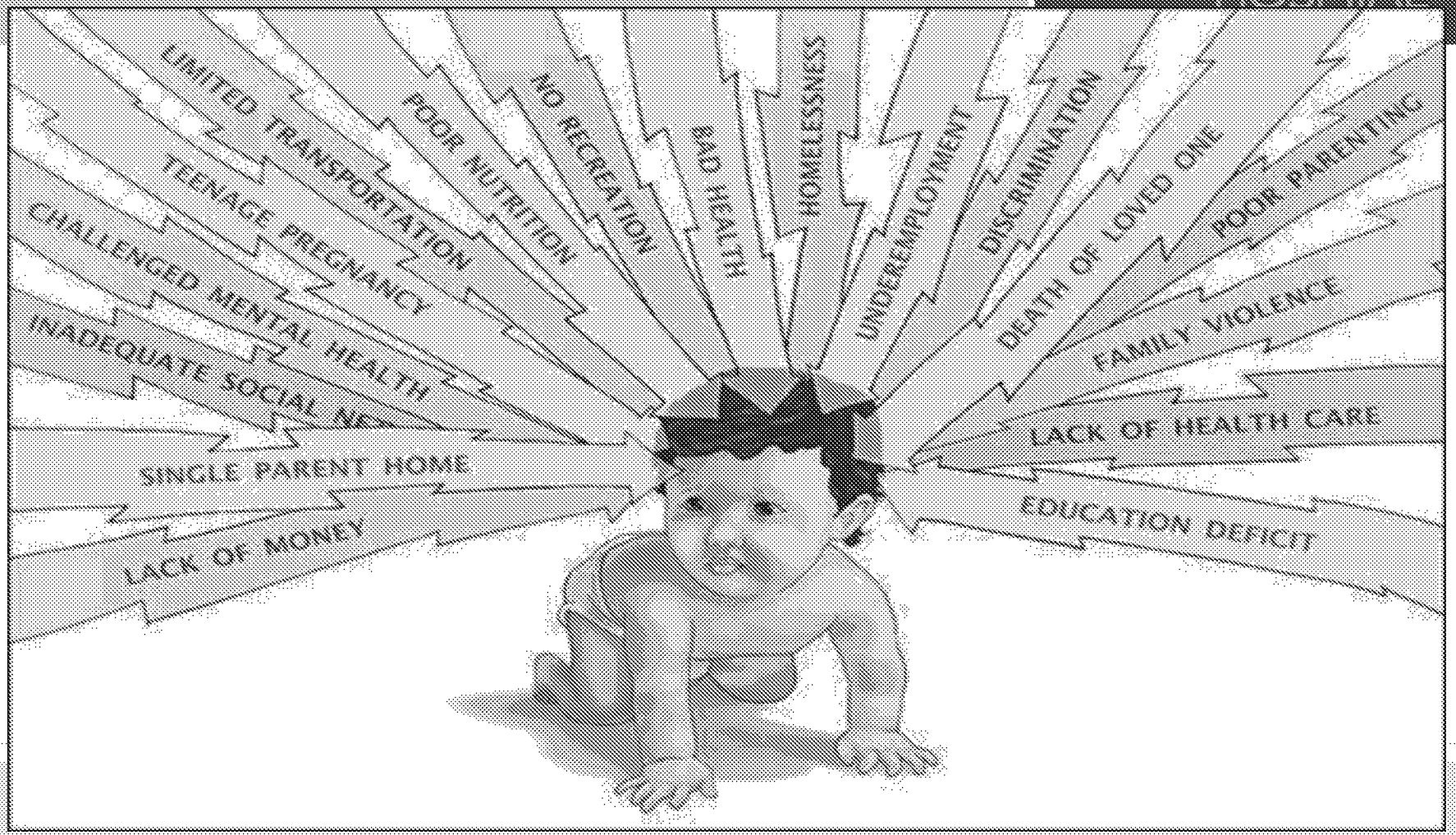

https://casaofsantacruz.wordpress.com/2014/10/08/continuing-education-webinar-how-toxic-stress-impacts-cas-children-families-communities-2/

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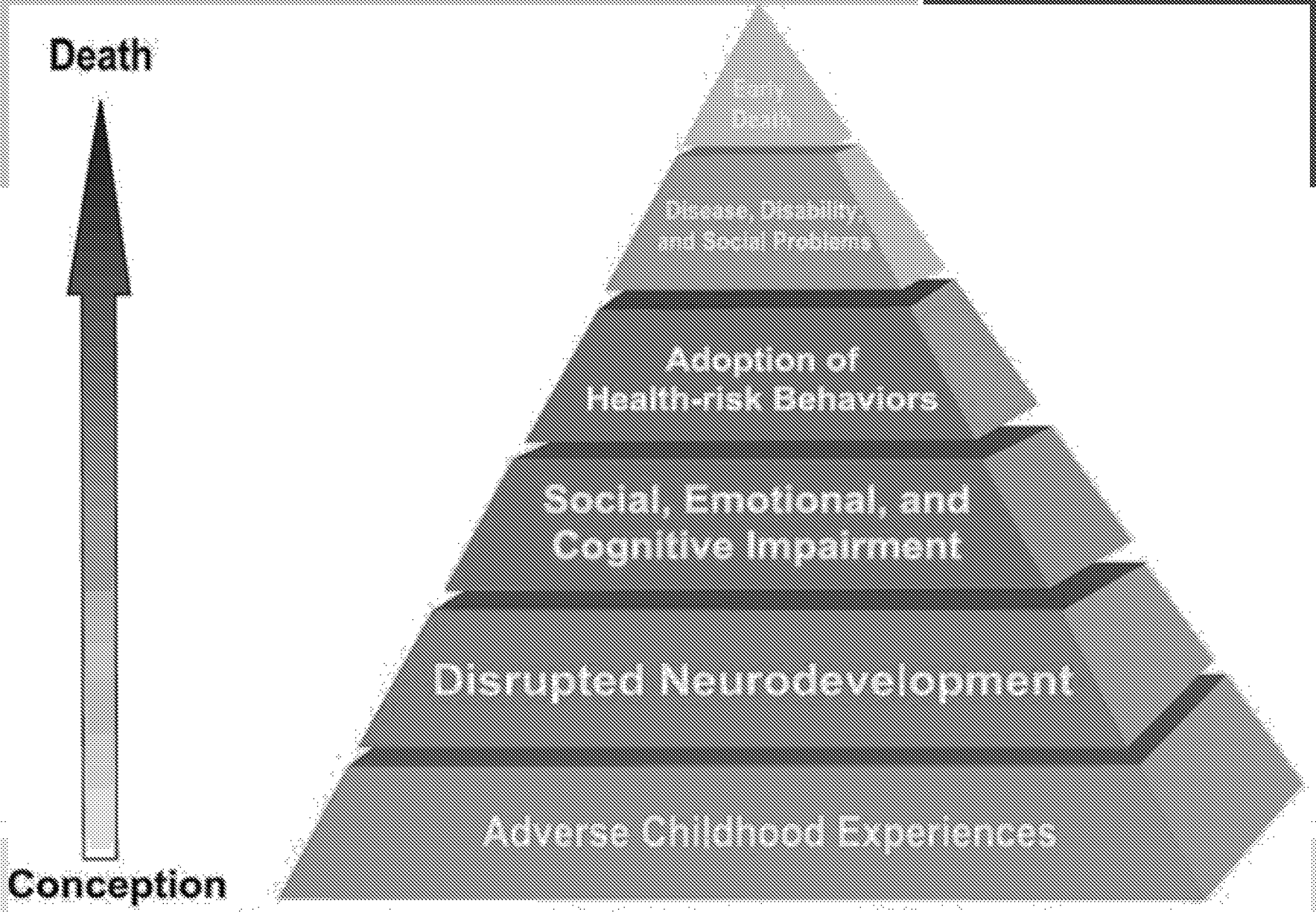

Mechanisms by Which Adverse Childhood Experiences Influence Health and Well-being Throughout the Lifespan

http://www.cdc.gov/violenceprevention/acestudy/

EPIGENETICS

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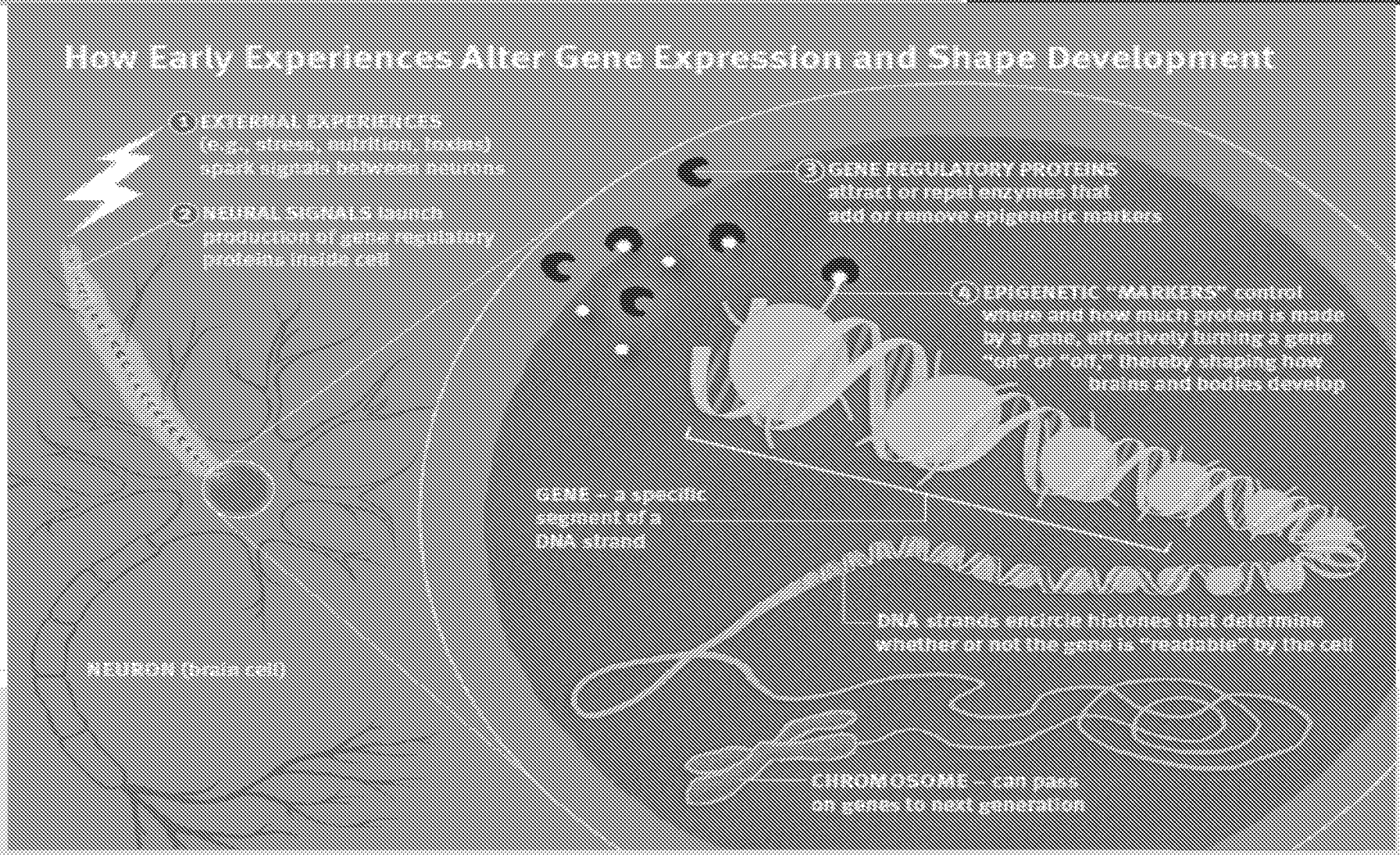

http://developingchild.harvard.edu/science/deep-dives/gene-environment-interaction/

ACE/Toxic Stress

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- Many chronic diseases/disparities in adults are determined decades earlier, by experiences in childhood (0-6 critical)
- Lead exposure is an ACE/toxic stress

Flint kids...

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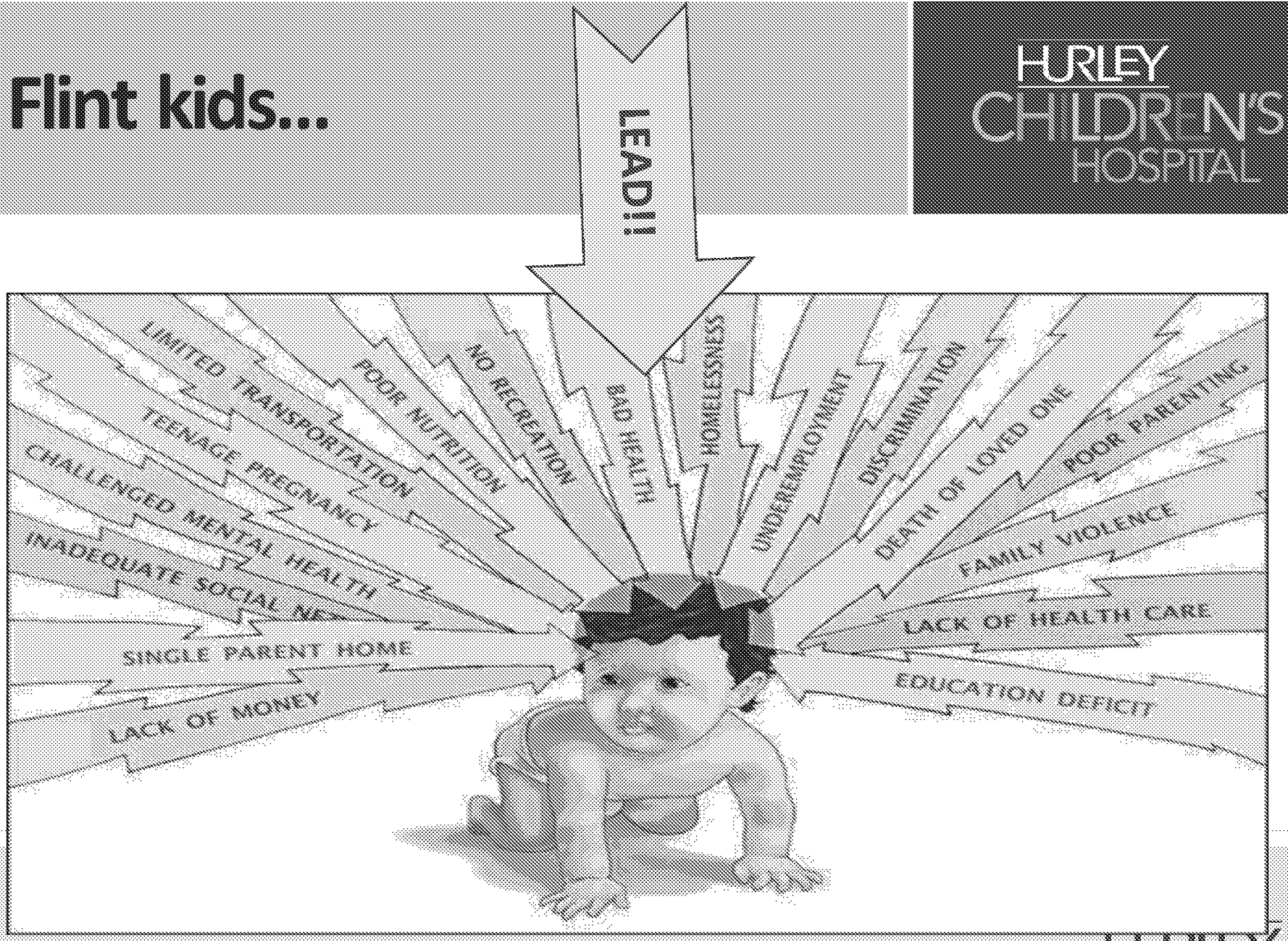

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- Now what can we do???

Research/Assessment

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- Assess the impact of the exposure
  - Health impact
    - BLL
    - Longitudinal neurodevelopmental f/u
    - Cord blood Pb, brain injury markers, epigenetics
    - Retrospective fetal deaths, IUGR
  - Nutrition impact
  - Psychosocial impact
  - Water quality/infrastructure impact
- Continued monitoring
  - Academic/public health collaborations

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Secondary Prevention

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- Unique opportunity to be proactive, to regain public trust, and to **buffer** impact of exposure
  - Short Term
  - Long Term

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Short-Term Secondary Prevention

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- Consistent, coordinated, multi-method, trusted messaging/education/risk communication/PSAs
  - Need for central command/hub/emergency response

Short-Term Secondary Prevention

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- Water still not safe (public health emergency)
  - Corrosion control optimization
  - Ongoing risk from scale disruption
  - Door to door filter/replacement distribution
    - # filters distributed approx 1/3 of homes
  - Public education re water precautions (filters, flushing, cold water, cooking, infants, etc)
  - Lead plumbing

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Secondary Prevention Evidence Based Interventions

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We know what works....

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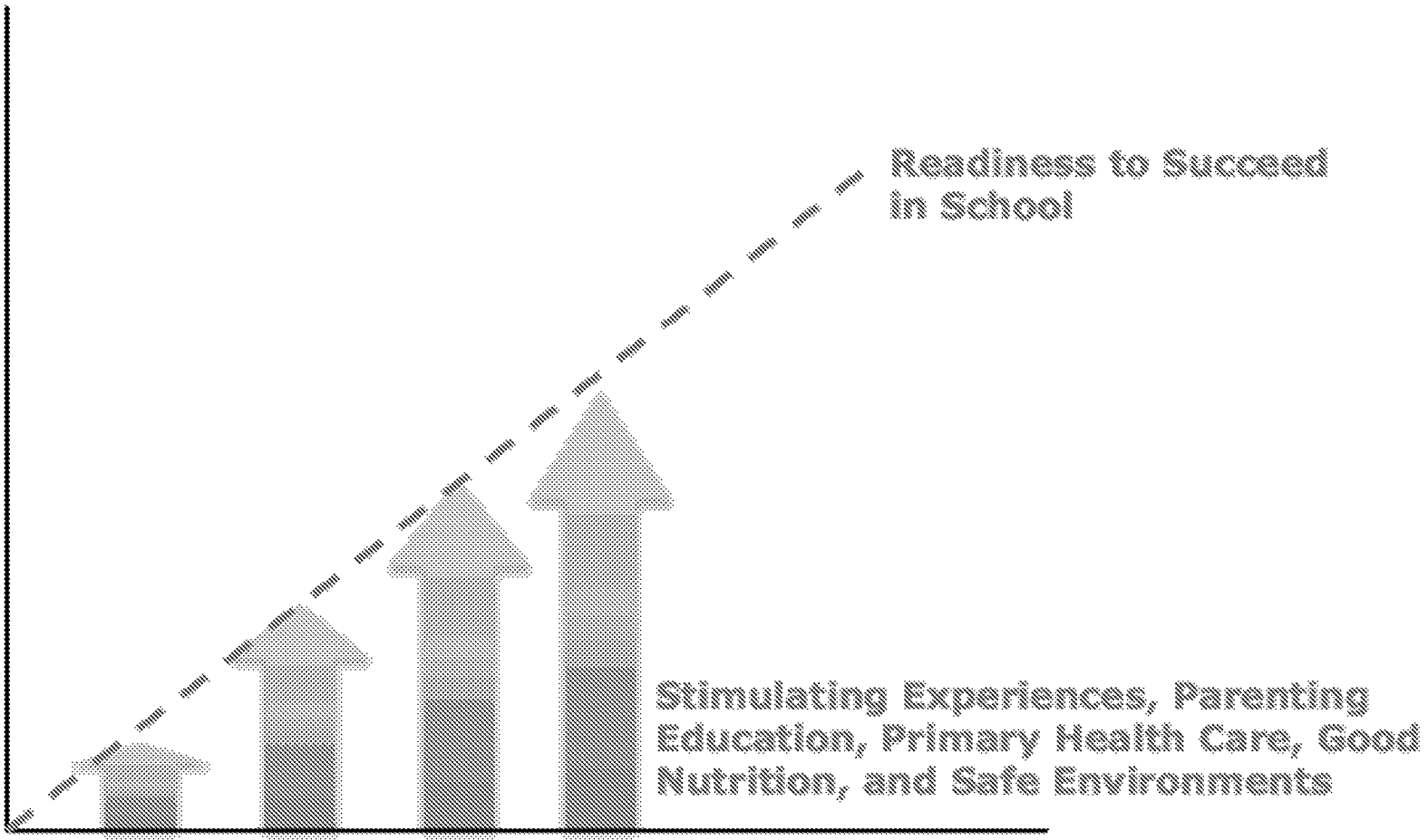

https://www.aap.org/en-us/advocacy-and-policy/federal-advocacy/Documents/Panel%201%20-%20Shonkoff%20Center%20on%20the%20Developing%20Child%20Presentation.pdf

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And we know what hurts...

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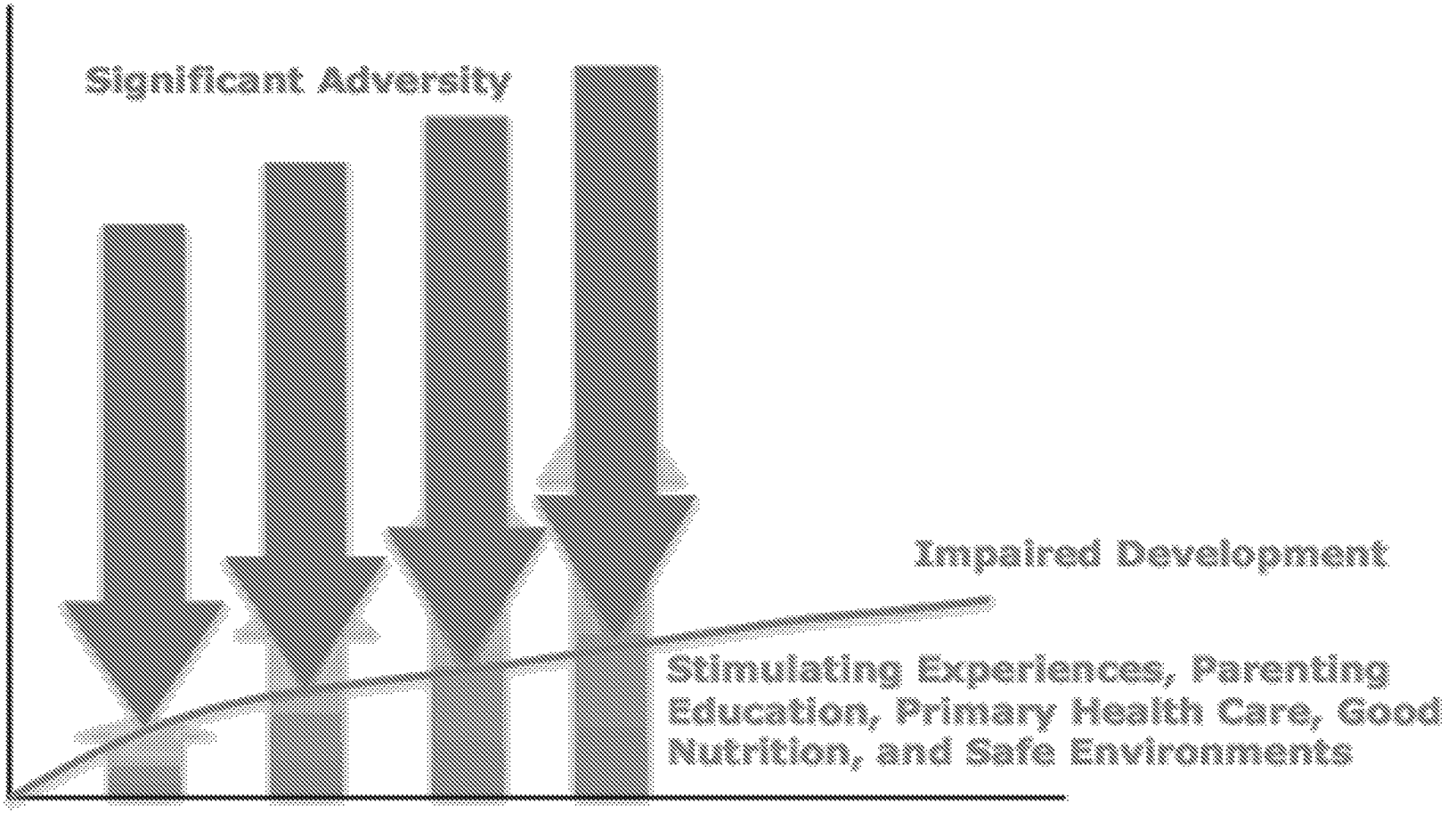

https://www.aap.org/en-us/advocacy-and-policy/federal-advocacy/Documents/Panel%201%20-%20Shonkoff%20Center%20on%20the%20Developing%20Child%20Presentation.pdf

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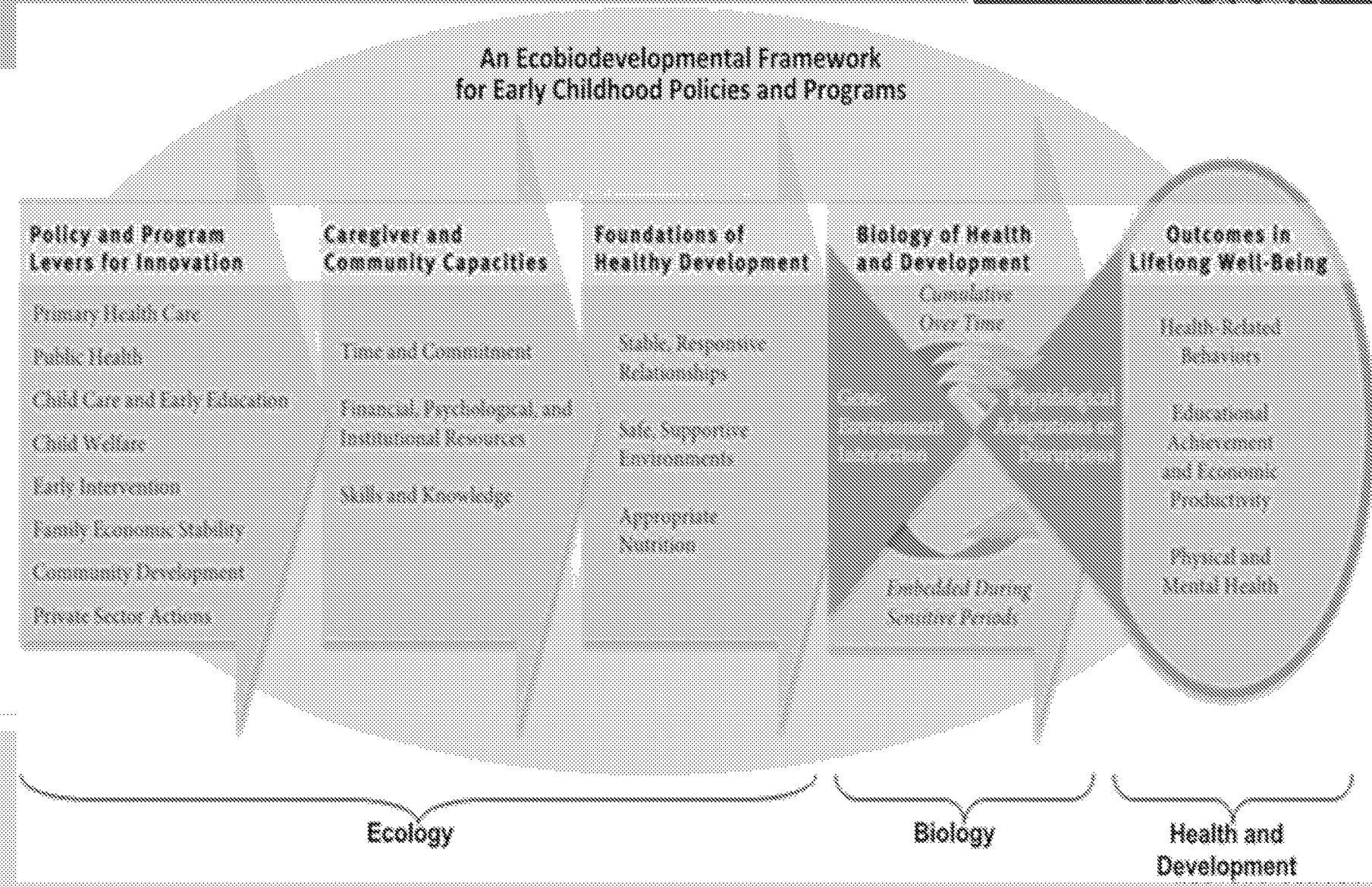
Evidence Based Interventions

HURLEY CHILDREN'S



http://pediatrics.aappublications.org/content/129/1/e232/F2.expansion.html

#flintwatercrisis
Secondary Prevention

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- Medical/Health
- Nutrition
- Education
- Caregiver capacity
- Water quality

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Secondary Prevention
Medical/Health

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- Support and education for primary care providers regarding aggressive long-term neurodevelopmental screening & testing
- Improve access to Developmental and Behavioral (DBP) specialists, pediatric psychologists, pediatric psychiatrists
  - Preemptive referral to mental health/toxic stress screening
  - Support capacity building and/or incentivize recruitment to allow Genesee Health System (CMH) to build this capacity which is currently needed and lacking
- Increase recognition and education regarding trauma informed care, social determinants of health (SDOH)
- Consider health fund/enrollment in Children's Special Health Care Services (CSHCS) for exposed kids to cover long-term needs

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Secondary Prevention Medical/Health

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- Expand state-funded Genesee Health System (CMH) services
  - Infant Mental Health (30 capacity)
  - Child case management
  - Home-based services
  - Trauma informed care – trauma focused CBT

Secondary Prevention
Medical/Health

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- Role of Medicaid HMO plans:
  - Support to drive patients to medical home: enhanced transportation, case management, HEDIS monitoring, pt incentives, mental health access, etc
  - Reimbursement for integrated social work, registered dietician, mental health services, OT/PT services
  - Encourage collaboration/mandate support of Genesee Children's Healthcare Access Program (CHAP)

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Hurley Children's Clinic

Thinking Outside The Box

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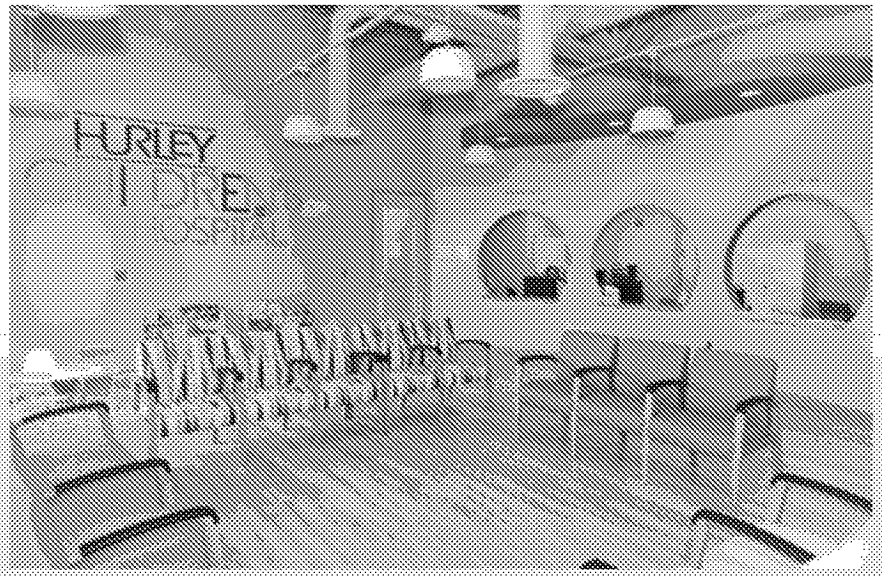


- Transportation
- Social work
- WIC RD/Nutrition
- Peds Psychology
- Training site

HURLEY MEDICAL CENTER

Secondary Prevention
Nutrition

HURLEY CHILDREN'S HOSPITAL

- Short-term mitigation/protection
  - Promotion/education of Iron, Calcium, Vit C diets
- Promote enrollment and participation in pre-existing nutrition resources (WIC, SNAP, DUFB, MTA)
- Expand WIC eligibility, access (co-locate with PMD), benefits

Secondary Prevention
Nutrition

HURLEY CHILDREN'S HOSPITAL

- Improve food access/security efforts
  - Subsidies, pilots – grocery stores, mobile groceries, urban farming, etc
- Invest in breastfeeding promotion, education, and support services

Secondary Prevention
Education

- Subsidize quality childcare options
- Automatic referral/assessment by Early Intervention (Early On)
- Enroll all in early head start, head start
  - Universal Pre-school/Flint Pre-Promise
- Strengthen special education capacity/trained personnel

Secondary Prevention
Education

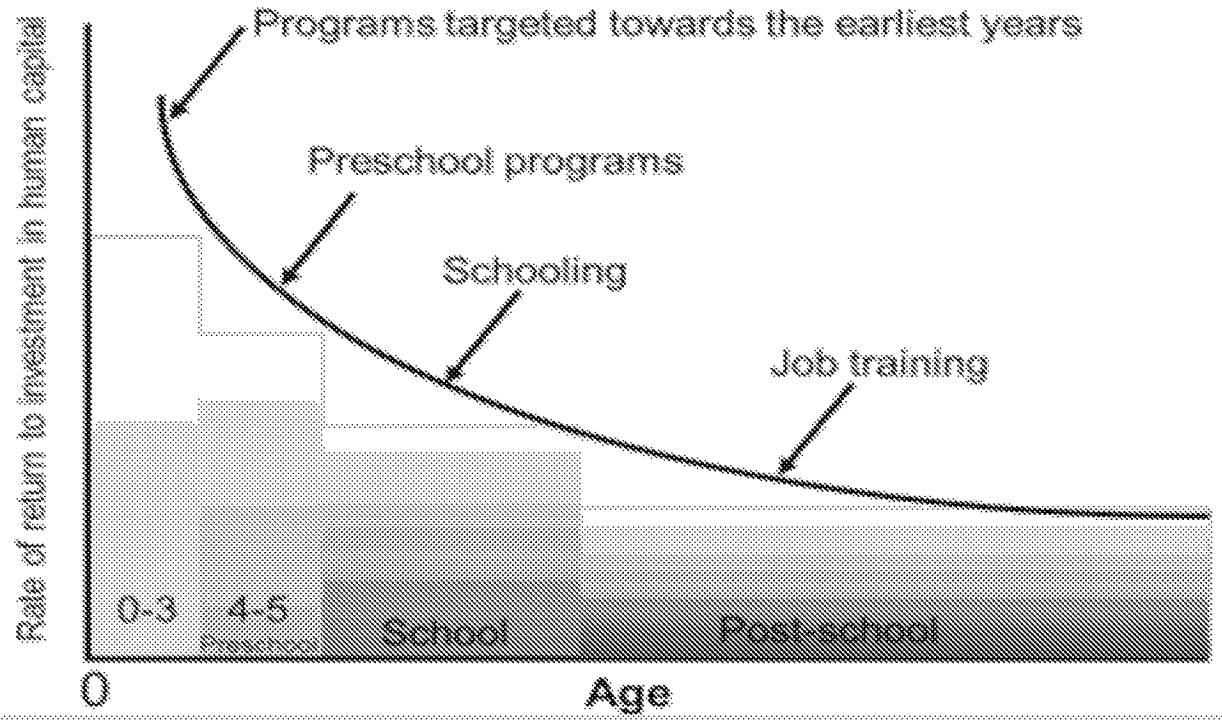
HURLEY CHILDREN'S HOSPITAL

- Invest in school health/wellness/behavioral health
  - School nurse:student ratio – MI ranked worst in country
  - 1:750 recommended
  - 1:6,500 Flint
- Place MDHHS employee at every school
- Model lead safe school campaigns
  - Proactive water testing, lead plumbing investigations
  - Lead mitigating school nutrition

Investing in Children: Younger The Better

HURLEY CHILDREN'S HOSPITAL

Rates of Return to Human Capital Investment at Different Ages: Return to an Extra Dollar at Various Ages



https://www.aap.org/en-us/advocacy-and-policy/federal-advocacy/Documents/Panel%202%20-%20Marks%20RWJF%20Presentation.pdf

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Secondary Prevention
Caregiver capacity

HURLEY CHILDREN'S HOSPITAL

- Toxic stress and resilience
  - "Strong, frequent, and/or prolonged activation of the body's stress-response system in the absence of the **buffering protection of a supportive, adult relationship**."

Shonkoff, J & Garner, A. (2012) The lifelong effects of early childhood adversity and toxic stress. Pediatrics, 129(1). 232-246.

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Secondary Prevention
Caregiver capacity

HURLEY CHILDREN'S HOSPITAL

- Need to support parents and programs to improve parenting skills
- Evidence-based parenting programs
  - Incredible Years (HCH AAP Grant)
  - Triple P
  - Everyday Parenting
  - Adventures in Parenting
  - Home visiting programs
  - Strengthening Families Framework
  - Maternal Infant Health Program (MIHP)
  - Healthy Start
  - Nurse Family Partnership (NFP)

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Nurse Family Partnership

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- 56% reduction in emergency room visits for accidents and poisonings in the second year of the child's life
- 50% reduction in behavioral problems when the children enter school.
- 48% reduction in state-verified reports of child abuse and neglect by child age 15
- 39% fewer healthcare encounters for injuries or ingesions in the first two years of life
- Increase in language scores

"Nurse-Family Partnership", Early Childhood, Social Programs That Work, Coalition for Evidence-Based Policy
hVp://evidencebasedprograms.org/wordpress/?page_id=57

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Secondary Prevention
Caregiver capacity

HURLEY CHILDREN'S HOSPITAL

- Increase support for state-funded NFP, Healthy Start and MIHP
  - Hurley-run NFP capacity for 100

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Secondary Prevention
Water Safety/Infrastructure

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- Opportunity to model best practices for lead in water monitoring to protect public health rather than a focus on minimum compliance
  - EPA Flint Safe Drinking Water Taskforce
- Flint will change water source and treat water again once connected to KWA (2016), should not be rushed
- Full lead plumbing replacement (can be targeted)

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Next Steps

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- Primary prevention failed
  - Preventable population-wide exposure
- Secondary prevention must be priority

- Invest and prioritize in evidence based interventions that mitigate exposure and build childhood resilience
  - Ages 0 to 6 years critical for life course trajectory

Top Five Interventions

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1. Support for emergency response
2. Increase funding/capacity for home visiting maternal-infant support programs
3. Guarantee Flint Pre-Promise (3-5 year quality early education)
4. Fund RN in every Flint school
5. Encourage innovative Medicaid HMO plan and medical home initiatives (ie: CHAP)

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It's easier to build strong children than to repair broken men.

Frederick Douglass, 1855

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Additional Resources

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- Harvard Center for Developing Child
  - http://developingchild.harvard.edu/
- AAP Toxic Stress Resources
  - https://www.aap.org/en-us/advocacy-and-policy/aap-health-initiatives/EBCD/Pages/Public-Health-Approach.aspx
- Strengthening Families: A Protective Factors Framework
  - http://www.cssp.org/reform/strengtheningfamilies
- CDC ACE Study
  - http://www.cdc.gov/violenceprevention/acestudy/
- *Pediatrics* articles
  - AAP Policy Statement: Early Childhood Adversity, Toxic Stress, and the Role of the Pediatrician: Translating Developmental Science Into Lifelong Health
  - AAP Technical Report: The Lifelong Effects of Early Childhood Adversity and Toxic Stress

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#flintwatercrisis

HURLEY CHILDREN'S HOSPITAL

Thank you!

HURLEY MEDICAL CENTER

From: Baird, Richard (GOV)
Sent: Wednesday, December 30, 2015 6:57 PM
To: Agen, Jarrod (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Kelenske, Chris (MSP); Holland, Meegan (GOV); Murray, David (GOV); Redford, James (GOV); Becker, Timothy (DHHS); Creagh, Keith (DNR); Roberts, John (DTMB)
Cc: Etue, Kriste (EtueK@michigan.gov); Nick Lyon
Subject: Attorney Client Work Product (Draft), Privileged and Confidential
Attachments: A Proposal to Create the Flint Water Inter.docx; IA Coord Com Org Chart.jpg; IAP Flint Water 2015-12-29.pdf

Team:

Today Harvey and I met with the Flint Water Task Force. It was a good meeting. People were pleased with the G's statement from the prior day. Captain Kelenske joined us and we had a very good discussion about moving forward with the creation of the Flint Water Crisis Agency Coordinating Committee (FIACC). Tim Becker and Captain Kelenske provided me with a fair amount of input. I also read the City of Flint Incident Action Plan for a State of Emergency which Chris received today (enclosed for those who wish to read it as well). I have distilled all of this into a two page plan that I want your edits and comments on and a one page organizational chart (now presented in the "governor's colors" according to our fine people in Communications). Spoiler alert—I made Captain Kelenske Vice Chair of the whole shebang (with the Colonel's blessing) so Harvey wouldn't get lonely.

Here is my ask of you:

1) Within 24 (sooner if you can) hours give me your comments and input
2) Tomorrow I will turn around a final document for Jarrod to review with the Governor either New Year's Day or Saturday
3) Ideally, Governor will approve Harvey sending it to Mayor Weaver Saturday (Sunday latest)
4) Mayor needs to know that this is what the Governor wishes to discuss at the meeting January 7 along with financial resources that we still need some estimates on cost from DHHS for
5) Meegan and Dave need to noodle how best to get out front with this and change the narrative focus on Monday's Genesee County declaration of emergency

I know we are all working way too hard for what should be a rest and recharge period but I do appreciate everyone's efforts and I know the Boss really does as well.

Regards,

Rich

CITY OF FLINT

INCIDENT ACTION PLAN

STATE OF EMERGENCY

Objectives:

To provide short term relief and long term solutions in addressing the man-made emergency of increased lead levels in the City of Flint (the "City") water system resulting from the switch to Flint River as the City's water source as well as the threat to public health related to elevated blood lead levels in Flint residents, without interruption of the provision of public safety and other essential public services. Due to the fluidic nature of emergencies and the complexity of the City of Flint's declared emergency, this plan serves as a framework and may be altered as the emergency develops.

The Response Framework

The purpose of this plan is to organize efforts on behalf of the city to assess the extent of the City's infrastructure needs and risks to public health, provide immediate relief to those who are at risk, and establish long term solutions. In addition, the city must ascertain what immediate relief and long term solutions the City is capable of implementing based on what resources are available. For any activities that are beyond the resource capacity of the City, external sources of funding, supplies, and manpower must be sought.

There are a number of steps that must be taken in accordance with the Flint Emergency Support Operations Plan (SEOP), in order for the City to be compliant with the Genesee County Emergency Action Guidelines. These include the activation of the Incident Management Team, the Emergency Operation Center, and the sharing of essential documents with the County, including this plan. Information must also be shared by the City's Public Information Officer on a regular basis, as required by the SEOP.

This plan calls for the provision of immediate relief to those at risk in our community. Special consideration must be given to residents who belong to underserved groups, such as those who are homebound, undocumented, in poverty, etc. Additional consideration must also be given to the equitable provision of services throughout our community in order to equally protect the health and safety of every member of our community.

Implementation of this plan is to be conducted by the Incident Management Team, which will monitor the effective delivery of goods and services in order to address the conditions of the emergency.

Understanding the Issue:

October 1, 2015, the Genesee County Health Department issued a Public Health Emergency after elevated blood-lead levels were found among children in the City of Flint. This incident correlates with elevated levels of lead found in the City's drinking water after the City switched water sources in April of

2014 to the Flint River. The scope of this problem appears to be limited to Flint City Water Customers and their dependents. Public agencies from several levels of government, as well as charitable, nonprofit organizations have partnered with the City to provide immediate relief to Flint residents, including the expansion of health services, the provision of bottled water and NSF rated water filters. The city is also seeking long term infrastructure improvements to eliminate lead and other contaminants from the water system.

Gov. Rick Snyder appointed a task force to review "actions regarding water use and testing in Flint" and to make recommendations for future guidelines: Members of the state task force are Ken Sikkema of Public Sector Consultants, Chris Kolb of the Michigan Environmental Council, Dr. Matthew Davis of the University of Michigan Health System, Eric Rothstein of the Galardi Rothstein Group and Dr. Lawrence Reynolds of Mott Children's Health Center.

In an effort to halt the further escalation of this crisis, the City returned to receiving its water from the Detroit Water and Sewerage Department (DWSD) on October 16, 2015. Since that time, additional corrosion control program has started, estimating a reduction of lead levels over the next six months. In light of these efforts, concerns surrounding the quality of water and health of the residents persist to the point that Mayor Karen Weaver declared a State of Emergency on December 14, 2015 so as to resolve this crisis once and for all.

The current challenge facing the City is providing immediate relief and long term solutions of the quality of the water and health of residents while the City remains in a financially critical condition. It is hoped and expected that higher levels of government recognize this emergency as it pertains to the condition of the City's infrastructure and health of its residents, and do all things necessary to assist the City in the provision of relief and the execution of capital improvement projects that will eliminate the causes of this emergency.

Enhancing Understanding:

Information Collection

Essential Elements of Information (EEIs) can be qualified as the City's water tests containing lead results, the verification of lead water lines (both public and private), and health information. Water testing is performed by the City's water plant in cooperation with the MDEQ. The verification of lead water lines is being handled by University of Michigan Flint, who is currently digitizing the City's water line information and PSI Engineering, who is initiating the effort to verify lead lines by excavating an initial 150 residential lines. This information allows the Incident Management Team to assess the current condition of the emergency by way of determining the water quality and the condition of the water distribution infrastructure.

Information Analysis

The City has sought partners to assist in the analysis and attenuation of complex data. Wayne State University's center for Urban Studies has agreed to assist the City in its efforts to document and track lead water lines, water test results, and filter distribution with geographic information system (GIS) technology. This allows for easily updateable, digestible information to be presented to officials.

Assessment of Impacts

The City will need assistance in determining the total cost of damage done to the public health and infrastructure. As of now, only portions of this damage are visible.

PSI is providing some assistance by excavating 150 residential water lines to verify that they are comprised of lead. This is an initial step, but not enough. More resources will be needed to continue this process.

Continuous Situational Awareness

It is important that the Emergency Management Team receive continuous information regarding water testing results, lead water line numbers, and filter distribution information in order to gain a realistic and current perspective. Much of his information is currently available on the City's website (cityofflint.com) and more is added each week by the PIO team.

Actions taken in Response to the Emergency

Activation of the Incident Management Team

Upon the declaration of Emergency by Mayor Weaver, the Support Emergency Operations Plan (SEOP) was activated. The SEOP calls upon the Incident Management Team to generate the Incident Action Plan (IAP. Each member of this team serves a specific function as it relates to addressing the causes and effects of the emergency. The Emergency Management Team roster can be found in the SEOP on page 3, with a list of alternates on page 4 in case the need for succession arises.

Emergency Operations Center

The Emergency Operations Center (EOC) must be activated upon the declaration of a State of Emergency by the Mayor. This center is required by the SEOP and serves as a nerve center for the Incident Management Team. Here, emergency relief efforts are coordinated by key members of the Incident Management Team. In this case, these relief efforts consist of the distribution of water filters at

City Hall and community events, the distribution of bottled water throughout the city in conjunction with the efforts of community partners, and assisting with the circulation of water testing kits throughout the community. The EOC will also be monitoring and managing the inventory of relief supplies, such as water filters and bottled water.

According to the SEOP, the EOC must establish an incident tracking system. This system will serve as a work plan for the management of the emergency. In addition, it is essential that the IMT record water testing results, lead water line location information, and information about the distribution of water filters and bottled water all in one place so that information is readily available for the Incident Management Team. This information will also be sent out to the public and media in the form of daily regular updates by the City's PIO.

Communication

The EOC maintains a telephone system that exists to intake questions about relief efforts and to organize relief logistics. It is open from 8am to 5pm, Monday through Friday. A voicemail system and eventual email system will exist to handle requests and inquiries that occur outside of the normal operating hours. This system will be constructed by the City's IS department.

Public Awareness and Education

1. **Emergency Alerts and Updates:**
   The City's Public Information Officer will make available information as it relates to the emergency in the form of press releases, emails, and physical documents. Daily updates containing information on the distribution of water filters, bottled water, water testing, blood lead testing, and other relief efforts will be available on the City's website for the public to view. Information will be available at City Hall for residents.

2. **Joint Information Center:**
   The City's PIO will establish a joint Information Center that is organized to coordinate the efforts of multiple agencies to communicate with the public. This includes the circulation of joint press releases, public health information, educational materials, and updates relating to the State of Emergency. This committee is comprised of public information officers and public relations personnel to coordinate efforts to keep the public updated and informed. Regular updates to the media regarding events and progress will be made as news develops.

   The US EPA has offered assistance in the form of Public Information support. Additional support in this area has been provided by the Michigan State Police.

3. **Education:**
   Many government agencies and philanthropic organizations are already distributing information regarding the effects of lead on public health. It is important that the City assist in these efforts so vital information and knowledge is presented to all members of the community. The goal is to continue to eliminate misunderstandings and incorrect information as it relates to reducing lead in drinking water, pursuing medical help, and maintaining a healthy diet to reduce lead absorption in the body. Lead education is currently being performed by the Genesee County Health Department, the Michigan Department of Health and Human Services and Medical community at-large.

Assessment of Social Needs

In order to effectively and equitably provide immediate relief to Flint water customers, the City must take into account many of the socio-economic needs and limitations of the community. Some residents cannot get to City Hall for a water filter. Some residents do not have internet access. Literacy or a language barrier may also pose significant obstacles to the effective distribution of educational information and relief to those in need. These will be continuing challenges facing the community. At present these are the resources the City has available to mitigate some of those challenges.

Logistics

Logistics are being coordinated by the City Emergency Management Team's City's *Chief Logistics Officer*, who is the City Administrator. The CLO is responsible for the coordination, procurement, and transportation of goods and services, which is essential for effective implementation of the response plan.

Fixed Distribution Points

There are several locations throughout the city where residents may acquire a water filter. These locations are:

Flint City Hall
1101 South Saginaw, Flint MI 48502

Genesee County Community Action Resource Department (GCCARD)
601 North Saginaw, Flint MI 48502
and
2727 Lippencott Blvd, Flint MI 48507

Michigan Department of Health and Human Services
4809 Clio Road, Flint MI 48504
and
125 E. Union Street, Flint, MI 48502

Activation of Ward Distribution Centers

Each of the nine wards will have activated distribution centers that are primarily managed by City Council Members or their designees.

Flint City Council – Water Distribution Sites

WARD	COUNCILPERSON	LOCATION	ADDRESS
1	Eric Mays	Hasselbring Senior Center	1002 W. Home Avenue
2	Jackie Poplar	Joy Tabernacle Church	2505 N. Chevrolet Avenue
3	Kerry Nelson	Antioch Baptist Church	1083 E. Stewart Avenue
4	Joshua Freeman	Flint Fire Station No. 5	3402 Western Road
5	Wantwaz Davis	Doyle/Ryder Elementary School	1040 N. Saginaw Street
6	Herbert Winfrey	New Community Baptist Church	1375 Lavender Avenue
7	Monica Galloway	Brennan Community Center	1301 Pingree Avenue
8	Vicki VanBuren	Flint Southwestern Academy	1420 W. 12th Street
9	Scott Kincaid	Dort Mall Police Service Station	3600 S. Dort Highway

Mobile Distribution Centers

With the help of transportation agencies, like the Metro Transit Authority (MTA), meals on wheels, and GCCARD, the city can help establish mobile distribution centers and delivery systems that can provide water filters, bottled water, and nutritious foods, among other types of relief accompanied by educational materials to neighborhoods and to homes of people who experience limited mobility.

- Mass Transportation Authority-MTA bus passes: Assisting residents with bus passes to improve their mobility will increase their chances of receiving help. Transportation services will also improve residents' access to medical care.
- MTA-Your Ride mobile distribution:
    - Estimated Costs: $25 per hour to deliver water and filters to homes throughout the City.

Problem 1. Public Health Emergency

The first objective in addressing this emergency is reducing, and eventually eliminating, the danger to public health. As City water coming out of faucets continue to contain lead, and copper and other

harmful contaminants exceeding government guidelines and regulations, it poses a risk to the people of our community. Preventative measures must be taken to avoid the effects of toxicosis that are difficult if not impossible to completely reverse.

As far as preventative measures are concerned, education, water filters, and bottled water must be provided to every household in the City in order to reduce the chances of lead exposure, especially to our most vulnerable members of the community. If lead exposure has occurred, resulting in elevated blood lead levels, immediate and sustained medical attention must be available to those affected. Health services must be expanded in the area to accommodate increased numbers of case loads and specialized care regarding lead poisoning and its effects.

Immediate Relief for Public Health:

1. Prevention: Education, water filters and replacement cartridges, free water testing, and bottled water must be available to everyone.
2. Access to nutritious food that reduces the risks of lead absorption by the body. The City can coordinate activities with the County Health Department

Long Term Solutions: Maintaining Public Health and Coping with Lead Exposure

1. Work closely with the Genesee County Health Department and Michigan Department of Health and Human Services in order to provide sustainable care and monitoring of children exposed to lead. This care must be available for them for several years-preferably several decades.
2. Support and education for primary care providers regarding aggressive long-term neurodevelopmental screening and testing.
3. Improved access to developmental and behavioral (DBP) specialists, pediatric psychologists, pediatric psychiatrists.
    a. Pre-emptive referral to mental health/ toxic stress screenings.
    b. Support capacity building and or incentivize recruitment to allow Genesee health system (CMH) to build this capacity which is currently needed and lacking.
4. Increase recognition and education regarding trauma informed care, social determinants of health (SDOH).
5. Expand State funded Genesee Health System (CMH) services.
    a. Infant mental health (30 day capacity)
    b. Child case management
    c. Home based services
    d. Trauma informed care- trauma focused CBT

Problem 2. Lead Contamination in the Water

Immediate Relief:

1. Education, water filters and replacement cartridges, free water testing for water customers, and bottled water must be available to everyone. Water filters can be obtained at any of the fixed distribution points throughout the City.
2. Identification and verification of lead water service lines throughout the city- both public and private.
3. Assistance to identify lead pipes within buildings and homes.

Distribution of Bottled Water:
At this point, we are directing all offers for donations to the Food Bank of Eastern Michigan. It is imperative that water be accessible to all members of the community through a variety of distribution channels. These channels are explained in the Logistics Section of this plan.

Distribution of Test Bottles:
Water testing kits can be picked up at City Hall with instructions. Test results are posted on the City's website to raise public awareness and encourage more participation.

Long term Solutions: Capital Improvements Needs
The distribution of filters, water, and food to counter the effects of lead are essential response efforts to keep people safe. However, long term solutions are required to keep people healthy, to eliminate lead from the public and private water distribution system distribution, and to provide affordable clean water. Our public infrastructure and utilities must be reliable, sustainable, and equitable in order for this community to rebound after this emergency. The following long term solutions must be implemented in order to set the City of Flint on a course for recovery. These solutions come at a heavy cost for a City that is currently in receivership. The City has experienced financial distress due to this Emergency, in addition to a two million dollar loss from switching back to DWSD. The City has diligently applied for Fiscally Distressed Cities, Villages, and Townships, Grant in order to supplement funding for capital improvement projects. It is essential that these grants be awarded in order to achieve long term solutions.

1. COMPLETE **Transition to a Temporary Safe Water Source until the Completion of KWA:**
   This has already occurred. On October 16, 2015, Flint returned to receiving its water from DWSD on a 9 month agreement. This agreement will expire in June 2016, when the KWA is projected to be complete. The City had to pay $2 million out of its general fund to make this switch.

2. IN PROGRESS **Additional Corrosion Control added to the Water System:**

This is already occurring. In early December, 2015, Flint began to add additional corrosion control to the water coming in from DWSD in attempts to rebuild the protective scale inside its pipes. This is estimated to reduce lead levels in two to six months.

3. **Faucet Replacement:**
   Replacement of Water faucets, and drinking fountains in the school system. It has been determined after state inspections that many sources of lead contamination in the School System's water were the faucets themselves. These faucets need to be replaced.

4. **Water Line Replacement:**
   Water Line Replacement to reduce antiquated infrastructure and lead service lines. These lines must be identified, verified, and replaced. Residents who are facing financial hardships must have access to assistance to cover the costs of these replacements through access to grants and (forgivable) loans made available through State and Federal agencies. The corrosion damage to public and private lines that Flint River water caused is still being determined.
   - Replacement of an estimated fifteen thousand (15,000) lead service lines at an estimated cost of three thousand dollars ($3,000) per line. Total costs forty –five million dollars ($45,000,000). This project is estimated to be one of the most cost-intensive endeavors related to ameliorating water contaminants.

5. **Reimbursement of Critical Expenditures:**
   Seeking reimbursement of two million dollar cost of returning to DWSD and forgiveness of Water Revolving Loan Debt from the State of Michigan.

6. **KWA Capital Improvements**: The City has reconnected to Detroit temporarily until a water line from Port Huron is developed. The new water line known as the KWA pipeline or Karegnondi Water Authority is expected to bring water to the City from Lake Huron by July. The current cost agreement between Flint and DWSD is for nine months, therefore it is imperative that KWA be completed as soon as possible. Assistance relating to capital improvements to expedite this process will help to achieve long term goals.

KWA Capital Improvements:	**Estimated Costs:**
a. Transfer Station to Dort Reservoir	*$4,500,000*
b. Raw water line to pump station #4	*$636,000*
c. Phosphoric acid feed system	*$186,000*
d. Alum Feed system	*$40,000*
e. Post filtration system	*$387,289*

f.	*SCADA Upgrades*	*$424,000*
g.	*Sewer Relining*	*$100,000*
	Total	***$6,273,289***

Ancillary Considerations: Public Safety during an Emergency

During a time of emergency public safety agencies need to be prepared to respond to threats to public safety and critical infrastructure. The City is facing a man-made emergency that is threatening the public health. Resentment and hostility toward local institutions and municipal government is at a significant level.

Critical infrastructure should be safeguarded if the need arises. This includes increasing security at City Hall to reduce potential for public safety risks. In the case of credible threats to public infrastructure, it may be required to hire private security company for first line of defense. Private Security is lower cost, thereby making it the first option. The minimum response is acted upon first, elevating only if the need arises. Credible or imminent threats of damage or destruction to critical infrastructure requires an elevated response. Such needs may require over-time police officers to address critical situations. Mutual aid from surrounding communities can be requested if Flint public safety is overextended.

Implementation:

Community Partners

Financial limitations of the city persist while it confronts this emergency. Many community partners have offered their assistance to perform various needed functions. The city is heavily reliant on the assistance that government agencies and nonprofit organizations have provided.

The Mott Foundation

The Mott Foundation has provided financial assistance, especially in their generous contribution of $4 million. In addition, the Mott Foundation has recently pledged an additional

United Way

The Genesee County United Way has provided significant financial assistance in the way of purchasing and helping to distribute water filters since the public health emergency began on October 1st, 2015.

Genesee County Community Action Resources Department (GCCARD)

GCCARD is organized to fight poverty and has been a primary partner in the distribution of water filters. It has also regularly supported the city with the logistics and availability of water filters at City Hall.

Genesee County Health Department

Has provided educational information to Flint Water customers

Genesee County Board of Commissioners

The Board of Commissioners have pledged their support to help Flint seek solutions to this crisis. The Board has already assisted in making health and nutrition information available to the public.

Assistance from Wayne State University

Wayne State University's Center for Urban Studies will be providing technical GIS support to assist in the documentation of emergency relief efforts.

The US Environmental Protection Agency

Region 5 EPA has offered assistance with Public Information distribution during the emergency.

Outside Help is still needed…

The City of Flint is forever thankful to our community partners who have given so much to help so many people. However the magnitude of this emergency calls for more resources that are beyond the capacity of the combined local organizations and government agencies. Long term solutions will require a heavy investment in health care and capital improvement projects to upgrade the city's antiquated water distribution system.

- Help with Immediate Relief in terms of assuring allocative efficiency. Distribution should be equitable- assistance from other governments required to assure this.
- Reaching communities for the distribution of water filters, water, and educational materials.
- Help with Water Testing to increase participation and lead education.
- Increasing the rate of water testing
- Assistance is required to fund essential capital improvement projects to guarantee clean and safe water.

From: Baird, Richard (GOV)
Sent: Wednesday, December 30, 2015 9:13 PM
To: Kelenske, Chris (MSP)
Cc: Etue, Kriste (MSP)
Subject: Re: FW: Attorney Client Work Product (Draft), Privileged and Confidential

Not Responsive

Sent from my Verizon Wireless 4G LTE DROID
On Dec 30, 2015 9:09 PM, "Kelenske, Chris (MSP)" <KelenskeC@michigan.gov> wrote:

Not Responsive

From: Holland, Meegan (GOV)
Sent: Wednesday, December 30, 2015 9:01 PM
To: Baird, Richard (GOV); Agen, Jarrod (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Kelenske, Chris (MSP); Murray, David (GOV); Redford, James (GOV); Becker, Timothy (DHHS); Creagh, Keith (DNR); Roberts, John (DTMB)
Cc: Etue, Kriste (MSP); Lyon, Nick (DHHS)
Subject: RE: Attorney Client Work Product (Draft), Privileged and Confidential

Not Responsive

Not Responsive

The goal: Assess the extent of the elevated blood lead levels – the number of those affected and the degree to which they're affected

- Get as many people in the affected zip codes tested as possible – can the Red Cross or some other agency with a bus or mobile unit set up for folks to give blood convert over to blood level testing and go into neighborhoods that have low testing rates?

- A public health friend of mine said that Genesee County Health workers are stressed to the max. Can we deploy appropriate personnel from other county health agencies to help with inspecting homes for possible other causes In other words, it won't do any good to invest more in water infrastructure if we're finding window sills with teeth marks. I say this NOT to downplay the role that water lead levels may have played. But can we get Habitat for Humanity, for example, to do a massive volunteer effort to eradicate lead paint in homes … or is that beyond their expertise?

- Gather experts to assess exactly how extensive the problem is and potential causes. And then convey this in a much more accessible ways. If you want blood level data, you have to scroll down on the DHHS web site, find the headline and then read a long press release. Maybe we're conveying this information better on the ground, but if not, we need to communicate conclusive findings in multiple ways– graphics, video, informational photo galleries and maybe even a "test" that residents can take to see if their home is at risk in other ways. I know that sounds awfully MLive-ish, but it can be effective.

From: Baird, Richard (GOV)
Sent: Wednesday, December 30, 2015 6:57 PM
To: Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Clement, Elizabeth (GOV) <clemente@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Kelenske, Chris (MSP) <KelenskeC@michigan.gov>; Holland, Meegan (GOV) <HollandM2@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Redford, James (GOV) <RedfordJ@michigan.gov>; Becker, Timothy (DHHS) <beckert1@michigan.gov>; Creagh, Keith (DNR) <creaghk@michigan.gov>; Roberts, John (DTMB) <RobertsJ9@michigan.gov>
Cc: Etue, Kriste (MSP) <EtueK@michigan.gov>; Lyon, Nick (DHHS) <LyonN2@michigan.gov>
Subject: Attorney Client Work Product (Draft), Privileged and Confidential

Team:

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I know we are all working way too hard for what should be a rest and recharge period but I do appreciate everyone's efforts and I know the Boss really does as well.

Regards,

Rich

From: Baird, Richard (GOV)
Sent: Wednesday, December 30, 2015 9:13 PM
To: Etue, Kriste (MSP); Kelenske, Chris (MSP)
Subject: Fwd: RE: Attorney Client Work Product (Draft), Privileged and Confidential

Sent from my Verizon Wireless 4G LTE DROID
---------- Forwarded message ----------
From: "Baird, Richard (GOV)" <bairdr@michigan.gov>
Date: Dec 30, 2015 8:55 PM
Subject: Fwd: RE: Attorney Client Work Product (Draft), Privileged and Confidential
To: "Hollins, Harvey (GOV)" <hollinsh@michigan.gov>
Cc:

Not Responsive

Sent from my Verizon Wireless 4G LTE DROID
---------- Forwarded message ----------
From: "Kelenske, Chris (MSP)" <KelenskeC@michigan.gov>
Date: Dec 30, 2015 8:38 PM
Subject: RE: Attorney Client Work Product (Draft), Privileged and Confidential
To: "Creagh, Keith (DNR)" <creaghk@michigan.gov>,"Baird, Richard (GOV)" <bairdr@michigan.gov>
Cc: "Agen, Jarrod (GOV)" <AgenJ@michigan.gov>,"Clement, Elizabeth (GOV)" <clemente@michigan.gov>,"Hollins, Harvey (GOV)" <hollinsh@michigan.gov>,"Holland, Meegan (GOV)" <HollandM2@michigan.gov>,"Murray, David (GOV)" <MurrayD1@michigan.gov>,"Redford, James (GOV)" <RedfordJ@michigan.gov>,"Becker, Timothy (DHHS)" <beckert1@michigan.gov>,"Roberts, John (DTMB)" <RobertsJ9@michigan.gov>,"Etue, Kriste (MSP)" <EtueK@michigan.gov>,"Lyon, Nick (DHHS)" <LyonN2@michigan.gov>

Not Responsive

From: Creagh, Keith (DNR)
Sent: Wednesday, December 30, 2015 8:15 PM
To: Baird, Richard (GOV)
Cc: Agen, Jarrod (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Kelenske, Chris (MSP); Holland, Meegan (GOV); Murray, David (GOV); Redford, James (GOV); Becker, Timothy (DHHS); Roberts, John (DTMB); Etue, Kriste (MSP) Lyon, Nick (DHHS)
Subject: Re: Attorney Client Work Product (Draft), Privileged and Confidential

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Increased funding/focus for Head start to get ahead of the curve

School nutrition and distribution systems (year around)

Fresh produce/local foods

Individual health screening

Infrastructure improvements

I know most if not all are identified in the outline but might want to further explain the nutrition component if the Docs in the group say it might be beneficial for those involved.

Thanks again-Keith

Sent from my iPad

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Rich

<A Proposal to Create the Flint Water Inter.docx>

<IA Coord Com Org Chart.jpg>

<IAP Flint Water 2015-12-29.pdf>

From: Baird, Richard (GOV)
Sent: Wednesday, December 30, 2015 9:25 PM
To: Kelenske, Chris (MSP)
Subject: Fwd: Re: Attorney Client Work Product (Draft), Privileged and Confidential

Sent from my Verizon Wireless 4G LTE DROID
---------- Forwarded message ----------
From: "Baird, Richard (GOV)" <bairdr@michigan.gov>
Date: Dec 30, 2015 9:22 PM
Subject: Re: Attorney Client Work Product (Draft), Privileged and Confidential
To: "Hollins, Harvey (GOV)" <hollinsh@michigan.gov>
Cc:

Not Responsive

> Sent from my Verizon Wireless 4G LTE DROID
> On Dec 30, 2015 9:17 PM, "Hollins, Harvey (GOV)" <hollinsh@michigan.gov> wrote:

Not Responsive

>> On Dec 30, 2015, at 8:55 PM, Baird, Richard (GOV) <bairdr@michigan.gov> wrote:

Not Responsive

>>> Sent from my Verizon Wireless 4G LTE DROID
>>> ---------- Forwarded message ----------
>>> From: "Kelenske, Chris (MSP)" <KelenskeC@michigan.gov>
>>> Date: Dec 30, 2015 8:38 PM
>>> Subject: RE: Attorney Client Work Product (Draft), Privileged and Confidential
>>> To: "Creagh, Keith (DNR)" <creaghk@michigan.gov>,"Baird, Richard (GOV)" <bairdr@michigan.gov>
>>> Cc: "Agen, Jarrod (GOV)" <AgenJ@michigan.gov>,"Clement, Elizabeth (GOV)" <clemente@michigan.gov>,"Hollins, Harvey (GOV)" <hollinsh@michigan.gov>,"Holland, Meegan (GOV)" <HollandM2@michigan.gov>,"Murray, David (GOV)" <MurrayD1@michigan.gov>,"Redford, James (GOV)" <RedfordJ@michigan.gov>,"Becker, Timothy (DHHS)" <beckert1@michigan.gov>,"Roberts, John (DTMB)" <RobertsJ9@michigan.gov>,"Etue, Kriste (MSP)" <EtueK@michigan.gov>,"Lyon, Nick (DHHS)" <LyonN2@michigan.gov>
>>>

Not Responsive

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>>>> *From: Creagh, Keith (DNR)*
>>>> *Sent: Wednesday, December 30, 2015 8:15 PM*
>>>> *To: Baird, Richard (GOV)*
>>>> *Cc: Agen, Jarrod (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Kelenske, Chris (MSP); Holland, Meegan (GOV); Murray, David (GOV); Redford, James (GOV); Becker, Timothy (DHHS); Roberts, John (DTMB); Etue, Kriste (MSP); Lyon, Nick (DHHS)*
>>>> *Subject: Re: Attorney Client Work Product (Draft), Privileged and Confidential*
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>>>>>
>>>>> *<IA Coord Com Org Chart.jpg>*
>>>>>
>>>>> *<IAP Flint Water 2015-12-29.pdf>*

From: Baird, Richard (GOV)
Sent: Tuesday, January 05, 2016 4:20 PM
To: Rich Baird
Subject: FW: Proclamation
Attachments: 2016-01-05 Flint Water Governor's Declaration Final.pdf

From: Arwood, Cheri (GOV)
Sent: Tuesday, January 05, 2016 4:18 PM
To: Scott, Allison (GOV); Smith, Paul (GOV); Murray, David (GOV); Kelenske, Chris (MSP); Redford, James (GOV); Baird, Richard (GOV); Agen, Jarrod (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV)
Subject: RE: Proclamation

Please see attached.

Cheri

STATE OF MICHIGAN
EXECUTIVE OFFICE
LANSING

RICK SNYDER
GOVERNOR

BRIAN CALLEY
LT. GOVERNOR

PROCLAMATION

DECLARATION OF EMERGENCY

WHEREAS, Section 1 of Article V of the Michigan Constitution of 1963 vests the executive power of the state of Michigan in the Governor; and

WHEREAS, under the Emergency Management Act, Act No. 390 of the Public Acts of 1976, as amended, MCL 30.401 to 30.421, the Governor is responsible for coping with dangers to this state or the people of this state presented by a disaster or emergency or threat thereof, and may issue executive orders and proclamations, having the force and effect of law to implement the Act; and

WHEREAS, under Section 3 of the Emergency Management Act, 1976 Public Act 390, MCL 30.403, the Governor shall, by executive order or proclamation, declare a state of emergency if the Governor finds that an emergency has occurred or that the threat of an emergency exists; and

WHEREAS, on April 25, 2014 the City of Flint, Michigan switched from the Detroit water system to the Flint River as a water source, the harmful effects of untreated water struck the city's water infrastructure, causing leaching of lead into the water which caused damage to the water system and potential negative health impacts to the citizens; and

WHEREAS, the area affected includes parts of the City of Flint, within the County of Genesee; and

WHEREAS, the damaged water infrastructure and leaching of lead into the city's water caused damage to public and private water infrastructure, and has either caused or threatened to cause elevated blood lead levels, especially in the population of children and pregnant women, and causing a potential immediate threat to public health and safety and disrupting vital community services; and

WHEREAS, from October 1, 2015 to this date, the County of Genesee and the City of Flint have taken a number of actions to cope with the situation, including but not limited to, switching back to the Detroit water system on October 16th, declaring local states of emergency, activating the emergency response and recovery aspects of their emergency operations plan, marshaling

and distributing required resources on a city-wide level, and issuing emergency public information and bulletins; and

WHEREAS, local resources have been insufficient to address the situation, and additional assistance from voluntary organizations and the state is required to protect public health, safety, and property, and to lessen or avert the threat of more severe and long lasting impacts to the community;

NOW, THEREFORE, I, RICHARD D. SNYDER, Governor of the state of Michigan, pursuant to the Constitution of the state of Michigan and provisions of Act No. 390 of the Public Acts of 1976, as amended, do hereby proclaim that a state of emergency exists in the aforementioned county and municipality; and

FURTHER, the Emergency Management and Homeland Security Division of the Department of State Police shall coordinate and maximize all state efforts, and may call upon all state departments to utilize resources at their avail to assist in the emergency area pursuant to the Michigan Emergency Management Plan; and

FURTHER, termination of this emergency will occur at such time as the threats to public health, safety, and property caused by the emergency no longer exist and appropriate programs have been implemented to recover from the effects of this emergency, but in no case longer than February 1, 2016, unless extended as provided by Act No. 390.

Given under my hand and the
Great Seal of the State of Michigan this
5th day of January in the Year of Our
Lord, Two Thousand and Sixteen.

RICHARD D. SNYDER
GOVERNOR

BY THE GOVERNOR:

SECRETARY OF STATE

FILED WITH SECRETARY OF STATE
ON 1/5/16 AT 4:00pm

From: Baird, Richard (GOV)
Sent: Tuesday, January 05, 2016 8:32 PM
To: Manolakoudis, Virginia (GOV)
Subject: Fwd: Flint Spreadsheet

Let's discuss in am.

Sent from my Verizon Wireless 4G LTE DROID
---------- Forwarded message ----------
From: "Clayton, Stacie (GOV)" <claytons3@michigan.gov>
Date: Jan 5, 2016 4:55 PM
Subject: Flint Spreadsheet
To: "Baird, Richard (GOV)" <bairdr@michigan.gov>
Cc: "Hollins, Harvey (GOV)" <hollinsh@michigan.gov>,"Manolakoudis, Virginia (GOV)" <ManolakoudisV@michigan.gov>

Rich,

Attached is Harvey's document for the Governor's meeting with Mayor Weaver. It contains potential offerings by the state without revealing the associated costs. Please let us know if you need anything else.

~Stacie

Subject:	Internal Flint Water Meeting
Location:	Governor's Conference Room, 2nd Romney
Start:	Wed 1/28/2015 10:00 AM
End:	Wed 1/28/2015 11:00 AM
Show Time As:	Out of Office
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	Posthumus, Dick (GOV)
Required Attendees:	Clement, Elizabeth (GOV); Muchmore, Dennis (GOV); Walsh, John (GOV); Wisniewski, Wendy (GOV); Hall, Jean (GOV); Pleyte, Beth (Treasury); Saxton, Thomas (Treasury); Clayton, Stacie (GOV); Hollins, Harvey (GOV); Murray, David (GOV)

Attending:
Dick Posthumus
Dennis Muchmore
John Walsh
Beth Clement
Tom Saxton
Harvey Hollins
Dave Murray

Subject: Call Jerry Ambrose Re: Flint Water and Ministers Meeting
Location: PPI

Start: Fri 1/30/2015 12:30 PM
End: Fri 1/30/2015 12:45 PM
Show Time As: Out of Office

Recurrence: (none)

Organizer: Hollins, Harvey (GOV)

1) Safe water
    a. Water is safe to drink but if you're a vulnerable to health risk, talk with your doctor
    b.
2) Improve the water
    a. Decision was made by council to go to KWA, but not to use the Flint River as a temporary fix
    b. $200M borrowed to transition the system
    c. Saved immediately $9M / year
3) Cost of Water
    a. TODO: Duggan's initiative
    b. Old infrastructure
    c.

Subject: Flint Water Press Conference
Location: Haskell Community Center, 2201 Forest Hills Ave. Flint

Start: Tue 2/3/2015 3:00 PM
End: Tue 2/3/2015 4:00 PM
Show Time As: Out of Office

Recurrence: (none)

Meeting Status: Accepted

Organizer: Clayton, Stacie (GOV)
Required Attendees: Hollins, Harvey (GOV)

Tuesday, Feb. 3, 2015, 3-4 p.m.
Haskell Community Center, 2201 Forest Hills Ave. Flint
Governor's communications: Dave Murray, murrayd1@michgian.gov, PPI
DEQ communications: Brad Wurfel, wurfelb@michigan.gov, PPI
Treasury communications: Terry Stanton, stantont@michigan.gov, PPI

Purpose

The state government is providing support for the Flint government as it addresses issues with its water system. The state on Tuesday is announcing that Flint is receiving two grants totaling $2 million related to water system improvements through the Financially Distressed Cities, Villages and Townships grant program. DEQ Director Dan Wyant will address ongoing efforts with his agency to test Flint water and explain why the city is facing some of its problems. Senate Minority Leader Jim Ananich, D-Flint, will discuss his appreciation for the ongoing support for the city and its residents.

Attending

- Harvey Hollins, director of the Michigan Office of Urban Initiatives
- Dan Wyant, director of the Michigan Department of Environmental Quality
- Wayne Workman, deputy treasurer, Michigan Department of Treasury
- Jerry Ambrose, Flint emergency manager
- Dayne Walling, Flint mayor
- State Sen. Jim Ananich
- State Rep. Sheldon Neeley
- State Rep. Phil Phelps

Agenda

3:00 PM – 3:05 PM:	Harvey Hollins announces that Flint has received two grants totaling $2 million.
3:05 PM – 3:10 PM:	Dan Wyant discusses the state's ongoing role in monitoring Flint's water and any assistance that has been provided and will continue to be provided.
3:10 PM – 3:15 PM:	Mayor Dayne Walling remarks about appreciation for state assistance.
3:15 PM – 3:20 PM:	Sen. Jim Ananich remarks about appreciation for state assistance.
3:20 PM – 3:25 PM:	

3:25 PM – 3:35 PM: Harvey Hollins closing remarks, opens floor to media questions.
3:35 PM Event ends, though this might be optimistic.

Background

- The quality of Flint water has been a high-profile concern in recent weeks, with residents complaining about the color, taste and smell of tap water since a switch to Flint River water as a temporary source as a pipeline is built to Lake Huron as a water source starting in 2016.
  - Residents have attended meetings with jugs of brownish water.
  - U.S. Kildee has worked with labor and community groups to distribute bottled water.
- Mayor Walling has issued a letter (included below) calling for state and federal assistance for the city, including forgiveness of some $20 million in debt through the Drinking Water Revolving Loan Fund and calling for the governor to come to Flint personally.
  - Walling also submitted a guest column to the Flint Journal with similar requests.
    - He said the loan forgiveness is needed for the city to upgrade its water treatment process.
  - Governor and Mayor Walling had a telephone conversation on Friday, and the mayor has pledged to work together on solutions.

- Rep. Sheldon Neeley also has sent the governor a letter, saying that his constituents "are on the verge of civil unrest."

- The Department of Environmental Quality has been monitoring the water situation, with a detailed backgrounder and talking points attached below.

- The Treasury Department is announcing Tuesday that Flint is among the cities receiving a combined $8 million the Financially Distressed Cities, Villages and Townships grant program.
  - The announcement of the other grants will follow the Flint announcement.
    - The Flint grants are $1.1 million to allow the city to replace the functions of the old incinerator with new water pollution control facility allowing for the disposal of waste to landfills.
    - The other is $900,000 to allow the city to hire a contractor to perform a leak detection survey, which will lead to prioritizing repairs.
  - A breakdown of the grants is included below.

Treasury breakdown of Flint grants

Flint Incinerator: The grant project entails shutting down the current Water Pollution Control Facility Incinerator (due to the incinerator not being up to new EPA standards). In order to meet EPA standards, it would cost roughly $8.8M in upgrades to the current incinerator. The grant funding will allow them to replace the functions of the old incinerator by constructing new facilities which will allow for the disposal of waste to landfills.

Budget Breakdown	
Construction Contractor	$1,050,000
Project Management	$50,000
Total	$1,100,000

Flint Leak Detection: The grant project will allow the city to hire a contractor to perform a leak detection survey of the city water lines. The city will receive a map of leak locations and an assessment of leak severity. This data will allow the city to prioritize leak repair. The project also covers the expense of conducting a water pipe line wall thickness condition assessment on a portion of the city's pipes. The assessment will guide the city's water main replacement program.

Budget Breakdown	
Project Planning	$90,000
Mobilization of Crew to Site	$27,000

Leak Detection < 16" diameter	$378,000
Leak Detection 16" diameter or >	$270,000
Pipe Condition Assessments	$135,000
Total	$900,000

DEQ backgrounder on Flint water

Following the formal approval of Flint into the KWA in 2012, DWSD sent Flint a letter saying their contract was thereby terminated (by early 2013).

Genesee County has been using DWSD water without a contract since May 2014. But Flint took the letter to imply a water cutoff, and promptly turned to DEQ with a proposal to use the Flint River (their historic backup system).

This proposed shift was pitched primarily as a money saver. But it put the city in the business of water production, where they historically had been in the business of water transmission. DEQ approved the use of the river as a source, based on the treatment plant's past performance as a standby facility and the improvements we outlined prior to a switchover.

Several municipalities around the state use surface water supplies (rivers): Blissfield near Monroe, Manistique, and Alma to name a few.

The city completed the upgrades at the water plant the facility and DEQ approved it April 2014.

There were some initial hiccups. Last summer, there were a couple of 'boil water' notices issued. One for a water test that showed e. coli, one for a break in the water main.

The challenge to using the Flint River as a source is that the condition of the water is variable and changes with season and weather. It has substantially more organic matter than deep lake sources like Lake Huron. This organic matter is mobilized by high water events, and warm weather also can account for more organic material in the water.

The treatment of the organic matter is done with chlorine. One might conclude that the continual answer is just to use more chlorine to achieve water safety. However, at some point on the continuum, the chlorine and organic matter create TTHM – total trihalomethanes – as a byproduct. When the standard for those is exceeded over several consecutive quarters of testing, the supply is required by law to issue public notice and submit an approved plan for addressing the situation.

You'll note that this regulatory approach means TTHM testing is done quarterly. That means people who use the system are exposed to TTHM for several months before the public notice is required. It's because TTHM is a chronic health threat. Over the long term (measured in decades), continued exposure can contribute to some known health problems. If this were an immediate health threat, customers would receive immediate notification to boil their water or not use it.

Put in context, the EPA (which established the standard and the rule) estimates the existence of the TTHM standard prevents an estimated 280 bladder cancer cases each year … out of more than 330 million people who use public water supplies around the country.

It's not "nothing." State and federal law requires quarterly testing for TTHM and that the public be informed of it when the annual average of four quarters' worth of consecutive testing shows TTHM levels exceeding 80 parts per billion. Flint's results managed to exceed the annual average in three quarters, and they must develop a plan to address it.

But it's not like an eminent threat to public health. Unlike an e. Coli or even total coliform bacteria maximum contaminant level, which require immediate public notification and response and are part of daily / hourly testing of public water supplies, TTHMs pose a public health concern with chronic, long-term exposure.

It's clear the nature of the threat was communicated poorly. It's also clear that folks in Flint are concerned about other aspects of their water – taste, smell and color being among the top complaints.

The Safe Drinking Water Act requires public water supplies be tested for more than 90 regulated contaminants, including microbial contaminants. The act, and the program here in Michigan, work to ensure that water is safe to drink. The act does not regulate aesthetic values of water. Here are some factors affecting the aesthetics of water in Flint.

1. It's the Flint River. The water supplied by DWSD historically came from Lake Huron. It's softer. With hard water, you get a different flavor and feel. It's why General Motors suspended use of Flint Water – it was rusting their parts. Also, there's the 'organics' factor (discussed previously).
2. The system is old. Flint has more than 500 miles of water pipes. More than half of those pipe miles are more than 75 years old. Much of it is cast iron. Hard water can react with cast iron and exacerbates the rusty factor, which creates that brown water that angry residents were holding up in jugs for the media cameras last week. Valve failure has also been a key challenge. The system has an estimated 7,500+ valves. When they stick open or stick shut, it affects the hydraulics of the system and increase areas of stagnation. The city has a backlog of valves that need to be addressed. They've done half a dozen or so since November.
3. Flint is old. Many of the homes served by the system are old. Brown water complaints may also be attributable to cast iron pipes in customers' service connection to the city lines. The DEQ has been encouraging people with water coloration concerns to contact the city and see whether it is the service line or the City's line causing the issue. Again, discoloration is not an indicator of water quality or water safety, but we recognize that nobody likes it.

In summary, the City of Flint has tremendous need to address its water delivery system. We are not aware that they have any capital improvement funds for preventative maintenance in place, much less line replacement project monies that will require hundreds of millions.

The City was approved for a Revolving Fund loan in 2008 or 2009. As a Distressed Community, they qualified for flexible terms and 2 percent interest rate Revolving Fund Loan. After they were notified they were approved for the loan, they declined it. Previous SRF loans from the state to Flint bear an outstanding balance of $20.7 million today.

The DEQ continues working with the city to address the TTHM issue. They can take interim steps – from scrubbing the insides of transmission lines to carefully monitoring the hydraulic challenges in their system – to address customers' aesthetic concerns. Their TTHM numbers already are showing dramatic improvement; the November testing showed only one of seven sample points exceeding the standard.

The key now is that the standard is an average of three quarters' worth of results. It will be some time before they are officially "not in violation." However, depending on weather in 2015, it's not unforeseeable that we will be having this conversation again by next Christmas.

The key to the conversation is that TTHM is not a top health concern. That's key because residents need to understand TTHM in context, and it is key because it appears the mayor has seized on the public panic (sparked, frankly, by their poor communication of the violation notice) to ask the state for loan forgiveness and more money for their infrastructure improvement.

Another key thing to remember is that once the city connects to the new KWA system in 2016, this issue will fade in the rearview.

Key messages:

1. The DEQ Drinking Water program works with communities around the state to ensure that municipalities provide customers with clean, safe drinking water.
2. Municipal water supplies are tested rigorously and regularly for more than 90 regulated contaminants, including microbial contaminants that pose an immediate public health concern.
3. Flint's exceedance of the TTHM standard should reassure residents that the testing program is effective.

4. TTHM is not an immediate health threat. It is a chronic concern, one that can be problematic over the course of several decades of exposure. The public was notified because the law requires the city to make public notification, so that everyone can make informed decisions. This is particularly true for people with infants or those with compromised immune systems.
5. The DEQ is working with the City to address the situation. Recent tests show the TTHM numbers dropping rapidly. The department will continue working with the city in the months ahead, and residents should feel confident that their water is safe to drink unless the DEQ or City notifies them otherwise.
6. The discoloration and odor issues some Flint residents are experiencing are separate issues from the TTHM issue. TTHM is odorless, colorless and measured in parts per billion.
7. Flint water customers who have questions or concerns about their water should first contact the city to get answers and help. They also can contact the Michigan DEQ.

Mayor Walling's Facebook post

Friend,

Access to clean, safe, affordable water is a basic human right.

That's why I just sent Gov. Snyder my Flint Water Improvement Plan. It focuses on the areas of safety, quality, access, investment and education. My letter urges the governor to quickly implement these ideas so that Flint's water is 100% safe.

Please contact Gov. Snyder by calling (517) 335-6397 (or by clicking here) and ask him to take action immediately to implement my plan and ensure Flint's water is safe.

My plan offers new ideas and also builds on successful models of utility, energy and assistance programs at the state and federal levels. Here is my plan:

Safety & Quality

- 100% Safety is the standard
- City of Flint releases testing data to assure safety and expands testing to households with support from the Michigan Department of Environmental Quality
- Support alternatives for those advised not to drink the water by their doctors through the Michigan Health Endowment Fund and community partners to protect the vulnerable like seniors and infants
- Bring on experienced river water treatment operational management in the City of Flint
- Require water testing data to be released quarterly by law in all Michigan communities

Access

- Announce an amnesty program for turn-ons and reduce the turn-on cost in Flint
- Develop a revised payment plan policy to allow customers to come back on to the Flint system
- New Federal and State partnership to establish new Drinking Water Emergency Assistance Fund for customers (modeled on Federal and State energy utility programs: Low Income Home Energy Assistance Program; Michigan Energy Assistance Program; State Emergency Relief)

Investment

- Accelerate water system improvements outlined in the City of Flint Capital Improvement Plan through Federal and State Investments
- State approves City of Flint's Distressed Cities Fund applications
- Federal and State forgiveness of payment to Drinking Water Revolving Loan Fund
- Federal and State financing for future improvements
- City Water Department implements budgeted FY15 projects including leak detection, valve repairs, new pipes and meter replacements

Education

- Develop a community partnership to provide household and business customers with information on testing and conservation
- Ongoing partnership with Michigan Department of Human Services, United Way, Salvation Army and community organizations to provide information on water assistance
- Expand youth energy initiative to assist households with conservation and efficiency (piloted in summer 2014 with Northwestern High School students, EcoWorks and Consumers Energy)

The struggle with our water has gone on for too long. The state must take action and do its part. Please ask Gov. Snyder to take action immediately to implement my plan and ensure Flint's water is safe. Thank you for your ongoing support.

From: Larkin, Brian (GOV)
Sent: Wednesday, November 14, 2012 10:43 AM
To: Hollins, Harvey (GOV)
Subject: Karegnondi Water Authority

Harvey,

If you get a chance I wanted to ask you a few questions about the city of Flint's application to the state to join in the creation of the Karegnondi Water Authority linking us to the counties to the east leading to Port Huron. Since we are under state management this must be approved by the Treasure, I believe an application or request was sent this week. I'm interested to know what stance we're expecting the Treasure's office to have realizing this will directly impact Detroit if Flint starts their own water authority.

Brian Larkin
Associate Director
Office of Urban & Metropolitan Initiatives
125 E Union St.
Flint, MI 48502

810.820.1807

From: Larkin, Brian (GOV)
Sent: Saturday, December 01, 2012 8:04 AM
To: Hollins, Harvey (GOV)
Cc: Clayton, Stacie (GOV)
Subject: Flint Office Update

Flint Office Update

Flint

Not Responsive

Karegnondi Water Authority: interested to know what the Treasure's office is looking to recommend regarding the City's request to join in the creation of a new water authority that will ultimately end their participation in the Detroit water system.

Saginaw

Not Responsive

Bay City

Not Responsive

Brian Larkin
Associate Director
Office of Urban & Metropolitan Initiatives
125 E Union St.
Flint, MI 48502

810.820.1807

From: Hall, Jean (GOV)
Sent: Thursday, April 18, 2013 3:32 PM
To: Muchmore, Dennis (GOV); Roberts, John (GOV); Hollins, Harvey (GOV); Scott, Allison (GOV)
Cc: Wisniewski, Wendy (GOV); Clayton, Stacie (GOV); Hansen, Rachel (GOV)
Subject: Memo Flint Water System
Attachments: Memo Flint Water System 130418.docx

You were cc'd on the attached memo to the Governor.

Thank you.

Jean Hall
Executive Assistant
Office of Strategic Policy
Executive Office of Governor Rick Snyder
(517) 241-5493
HallJ16@michigan.gov

TO: Governor Snyder
CC: Dennis Muchmore, John Roberts, Harvey Hollins, Allison Scott

FROM: Bill Rustem

SUBJECT: Flint Water System

DATE: April 18, 2013

Governor, this information was compiled by the Department of Treasury.

Summary

In November 2012 the Department of Treasury commissioned the firm of Tucker, Young, Jackson & Tull, Inc. (TYJT) to analyze options for the City of Flint to either remain a customer of the Detroit Water & Sewer Department (DWSD) or to join the Karegnondi Water Authority (KWA) in Genesee County. The purpose of this study was to provide objective analyses to the State Treasurer and Flint's Emergency Financial Manager (EFM) in order to secure future potable drinking water for the City.

In December 2012, staff from TYJT met with representatives from the Department of Treasury and the City of Flint to provide a preliminary report on their findings. At this meeting, five options were presented: These options ranged from the Flint Water Plant providing 100% water, to 100% provision of untreated Lake Huron Water by KWA, to 100% provision of treated drinking water by DWSD, or provision of variable amounts of water from DWSD using a combination of blended DWSD water and Flint River water.

From the presentation of the preliminary report in December 2012 to the submission of the final report by TYJT in January 2013, a number of developments made arriving at a final decision very difficult.

- DWSD provided the City of Flint with at least two modified proposals to consider.
- A debate ensued between TYJT and KWA's principal engineering firm regarding the others' conclusions and estimates for construction of the KWA pipeline.
- The Flint EFM eliminated all options except the 100% DWSD option or joining KWA.

In January 2013, the Office of Financial Review (OFR) provided a comprehensive report to the State Treasurer analyzing three questions: 1) The projected construction costs and why Treasury believed the projections provided by Flint/KWA were acceptable; 2) Identification of the construction contingencies; and 3) Identification of the options Flint will utilize in the event of a construction cost overrun or a delay in construction. At the end of this report, the OFR recommended to the State Treasurer that KWA presented the best future option for future potable water. The OFR also concluded that KWA appeared to be the cheaper option; the quality of water would improve; Genesee County appeared willing to assist the City in securing the financing for their portion of the project; the KWA project could signify the beginning of better collaboration between the City of Flint and Genesee County; and the KWA project had both political and popular support.

Between January and April, intense scrutiny of the various proposals was undertaken by Treasury and Flint officials. Treasury officials met with officials from Genesee County to gain a better understanding of

the KWA project. In February 2013, Genesee County opened bids for construction of the Lake Huron intakes. This bid opening represented the first meaningful step toward commencing construction of the KWA system. The bid was $3-million less than projected.

In March 2013, Treasury was notified that DWSD had contacted Flint to negotiate with the City to retain them as a customer. On April 12, 2013, the State Treasurer authorized the Flint EFM to join KWA, pending review of any final offer from DWSD. A final offer was received from DWSD on April 15, 2013.

DWSD's final offer provided two options. The first option was for a "supply only" rate schedule. Only water treatment costs would be recovered and DWDS would absorb all other delivery costs. Capital and operating revenue charges would be calculated based upon KWA's usage relative to the entire demand upon DWSD's Lake Huron WTP. KWA would also have the ability to construct and own its own transmission lines.

The second option was a "full service" rate option. DWSD would provide all production and transmission services. Transmission rates would be calculated only on those costs necessary to supply KWA and no additional transmission rates would be charged. Capital and operating revenue charges would be calculated based upon KWA's usage relative to the entire demand upon the Lake Huron WTP.

Independent analyses of DWSD's final offer by the OFR, the Flint EFM, and the Department of Environmental Quality (DEQ) generally reached the same conclusions:

- DWSD's offer was a framework subject to negotiations and was not a firm offer.
- The offer provided by DWSD was incomplete.
- DWSD's offer did not include a guaranteed rate beyond year one, nor did it limit maximum annual rate increases.
- The DWSD scenarios were based on 40 MGD of service capacity. However, the KWA project provides 60 MGD of initial capacity with potential expansion to 75 MGD.
- DWSD indicates that Flint/ Genesee County would be given "broadened representation," it is unclear exactly what this means in terms of actual control in the decision making processes.
- The DWSD offer relies on a single transmission system and would require the City of Flint to maintain its WTP for emergency purposes. In addition, it would leave Genesee County without an adequate backup supply to meet their needs.
- DWSD's offer included an attachment that listed the rank-ordered options (from cheapest to most expensive). DWSD Scenario 2 is listed as the least expensive option (but it is unclear how the total cost of this option was arrived at). DWSD Scenario 1 was not listed.
- DWSD provided a summary table of their unit costs but how these figures are arrived at was not clear, so analysis proved difficult.

Without specific details from DWSD on this proposal, a true comparative analysis is difficult to provide. As such the Flint EFM rejected the DWSD proposal and agreed to join KWA.

If further information on this issue is needed, please let me know.

From: Elizabeth Murphy <emurphy@cityofflint.com>
Sent: Tuesday, January 21, 2014 11:00 AM
To: Maxine Murray
Cc: Baird, Richard (GOV); BymeR1@michigan.gov; Deasy, Thomas (MSP); Etue, Kriste (MSP); Kapp, Gene (MSP); Lee, Nichole (MSP); Muchmore, Dennis (GOV); Roberts, John (GOV); Sands, Thomas (MSP); Sipes, Stephen (MSP); West, Samantha (GOV); Dempkowski, Angela (Treasury); Larkin, Brian (GOV); Darnell Earley; Koryzno, Edward (Treasury); Clement, Elizabeth (GOV); Hollins, Harvey (GOV); James Tolbert; Jerry Ambrose; Klotz, Josephine (MSP); O'Neill, Stephen (MSP); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Re: Conference Call Agenda for Wednesday, January 22, 2014
Attachments: UPDATE Weekly Phone Conference Agenda.doc

Please see updated agenda.

On Tue, Jan 21, 2014 at 9:45 AM, Maxine Murray <mnurray@cityofflint.com> wrote:
Good morning,

Please find attached the agenda for the weekly conference call scheduled for Wednesday, January 22nd.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Darnell Earley, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

--
Liz Murphy
Assistant to the Emergency Manager
City of Flint
810 237 2025

City of Flint Weekly 9:00 am Phone Conference Agenda

Not Responsive

8) KWA, Water Plant Preparation, Water/Sewer Rate Study

Not Responsive

Created on 01/21/14

From: Larkin, Brian (GOV)
Sent: Friday, March 14, 2014 2:09 PM
To: Haan, Andrew (GOV); Hollins, Harvey (GOV); Clayton, Stacie (GOV); Guy, Andy (GOV)
Subject: Weekly Update

Not Responsive

KWA

- Public groundbreaking ceremony for the process of converting Flint River water into drinking water once the City of Flint no longer receives water from Detroit during the transition toward the newly established Karegnondi Water Authority.
- Water will be cut off from Detroit on April 18th
- The conversion process for preparing the local water treatment facilities is expected to be completed by April 7th, however vendors have yet to be selected as of Wednesday of this week.
- Bids were due in from vendors by Thursday of this week, putting a strain on the willingness of qualified vendors to participate. The expedited timeframe is less than ideal and could lead to some big potential disasters down the road.

Brian

Message

From: Elizabeth Murphy [emurphy@cityofflint.com]
Sent: 4/10/2014 1:57:59 PM
To: Byrne, Randall (Treasury) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=ByrneR1]; Workman, Wayne (TREASURY) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=WorkmanW]; Koryzno, Edward (Treasury) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=KoryznoE]; Hollins, Harvey (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Hollinsh]; Larkin, Brian (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Larkinb]; Baird, Richard (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Bairdr]; Dempkowski, Angela (Treasury) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DempkowskiA]
CC: Darnell Earley [dearley@cityofflint.com]
Subject: Fwd: Powerpoint Presentation for Committee
Attachments: City of Flint-Rate Study Presentation to Public Works Subcommittee v4.pptx

Attached please find the presentation slides from the Water and Sewer Rate Study which will be presented at the Public Works Committee meeting at 5pm today in the City of Flint Committee Room. Results from this meeting will be a discussion item on the agenda for next Wednesday's 9am meeting with Treasury.

---------- Forwarded message ----------
From: **Howard Croft** <hcroft@cityofflint.com>
Date: Thu, Apr 10, 2014 at 1:33 PM
Subject: Fwd: Powerpoint Presentation for Committee
To: Elizabeth Murphy <emurphy@cityofflint.com>

Liz,

Here is the powerpoint that raftelis will present tonight.

---------- Forwarded message ----------
From: **Tom Beckley** <tbeckley@raftelis.com>
Date: Thu, Apr 10, 2014 at 12:19 PM
Subject: Powerpoint Presentation for Committee
To: Darnell Earley <dearley@cityofflint.com>, Howard Croft <hcroft@cityofflint.com>, Daugherty Johnson <djohnson@cityofflint.com>, "jlorenz@cityofflint.com" <jlorenz@cityofflint.com>
Cc: Bill Stannard <wstannard@raftelis.com>, Collin Drat <cdrat@raftelis.com>

All,

Attached is the Powerpoint presentation for tonight's presentation to the Public Works Committee.

Tom

Thomas A. Beckley, Senior Manager

3013 Main Street Kansas City, MO 64108
direct 816.285.9024 / *mobile* PPI

Raftelis Financial Consultants, Inc. www.raftelis.com

RFC/AWWA 2012 Water and Wastewater Rate Survey:

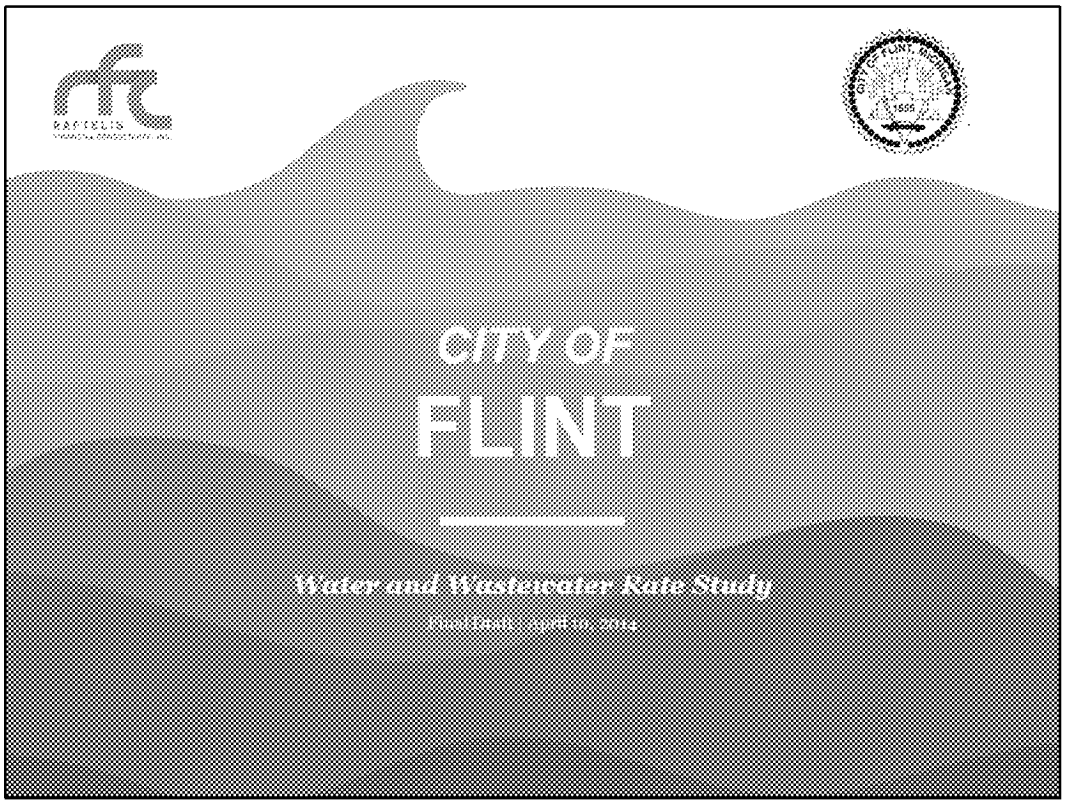
http://www.awwa.org/store/productdetail.aspx?productid=31940402

Water and Wastewater Finance and Pricing:

http://www.amazon.com/exec/obidos/ASIN/1566706807/

--
Howard Croft
Public Works
Director
City of Flint
1101 S. Saginaw Street
Flint, MI 48502
PH# 810.766.7346 Ext.2043

--
Liz Murphy
Assistant to the Emergency Manager
City of Flint
810 237 2025


CITY OF
FLINT
Water and Wastewater Rate Study
Draft Rate Report

Scope of Services

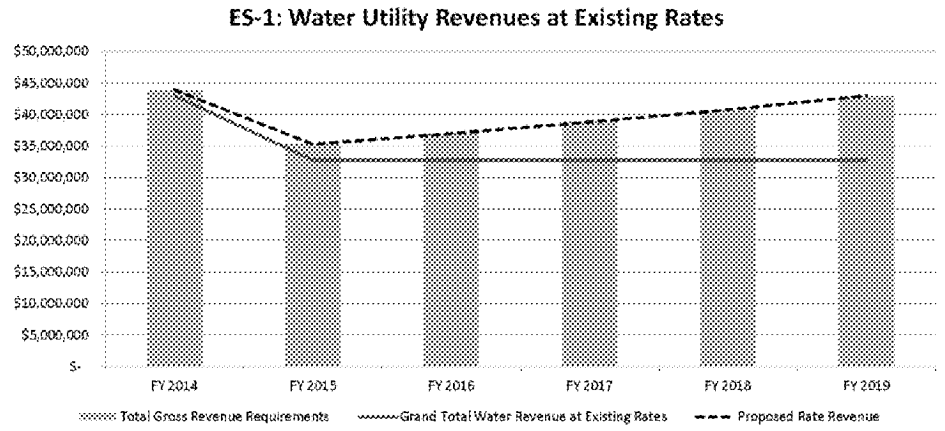
- Adequacy of Existing Water and Wastewater Revenues
- Water and Wastewater Financial Plans
- Cost of Service Study and Proposed Rates
- Impact of Transitioning to KWA
- Water and Wastewater Operations and Best Management Practices ("BMP")

ADEQUACY OF EXISTING REVENUES

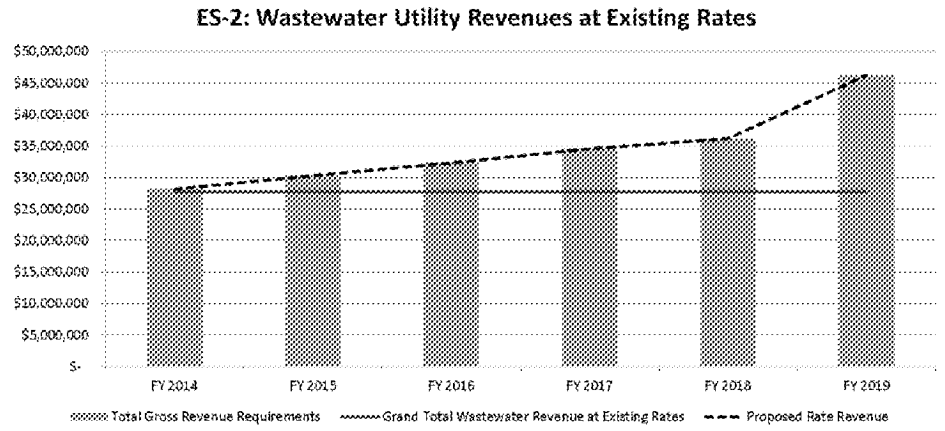
Factors Impacting Utility Revenues

- Marked decrease in billed water and wastewater usage
  - Approximately 12% below FY 2014 Budget
  - Under investigation under separate contract,
  - A normal pattern of declining per customer water usage
- Increases in utility revenue requirements
  - O&M
  - Cash-Funded Capital Improvements
  - Improving Financial Management Practices (e.g. increased cash reserves)

Water Utility Revenues at Existing Rates



Wastewater Utility Revenues at Existing Rates



WATER AND WASTEWATER FINANCIAL PLANS

Financial Planning Overview

- Purpose: determine rate revenue required for financial sustainability
- Process
  - Forecast customer units of service and revenue at existing rates
  - Forecast operation and maintenance expenditures ("O&M")
  - Forecast capital expenditures
    - CIP
    - Existing and Proposed DS
  - Develop detailed cash flow forecasts

Factors Driving Financial Plans

- Inflationary O&M Increases
- Annual Utility Recapitalization
- Water Utility Capital Improvements Associated with the Transition to KWA
- Financial Policies

Inflationary O&M Increases

- Largely associated with personnel costs
  - Annual COLA adjustments to Salaries and Medical
  - Legacy costs
    - Pension and Retiree Healthcare
    - Generally increase with salaries, usually higher based on pension funding levels
- Also related to the cost of materials and supplies
  - Cost of Chemicals for Water and Wastewater Treatment
  - Utilities Costs (Primarily Electric)
- Increases in cost of services provided via the General Fund (i.e. overhead cost allocation)

Recapitalization

- Necessary at some level on an annual basis
- Level and frequency based on age of water and wastewater system and original construction materials
- Can reduce O&M costs (i.e. less sewer back-ups, water main breaks etc.)
- Avoids "mining assets"

Transition to KWA

- Assumed April 1 transition to KWA.
- Revenues:
  - Decrease in revenues associated with cessation of service to Genesee County.
- Expenditures:
  - Decrease in O&M associated with elimination of DWSD water purchases
  - Increases in expenditures associated with full-time Flint WTP Operation
    - O&M: Increased costs to operate and maintain WTP
    - Capital: Expenditures to upgrade WTP to operate full-time
  - Debt Service: Flint's share of KWA project debt service

Financial Policies

- Separate Financial Plans for Each Utility
  - Equity for Customers
  - Ensures one fund is not subsidizing another
- Operating Reserve
  - Target of 90 days O&M and Debt Service
  - Working up to target over 5 years to mitigate rate impact
- Cash Funded Capital Improvements
  - All cash funded due to financing constraints
  - Potential to use Michigan SRF in the future
  - Short term rate impact, but long-term savings over debt
- Existing Debt Service Coverage
  - Substantial for water utility due to cash funding
  - No outstanding wastewater debt

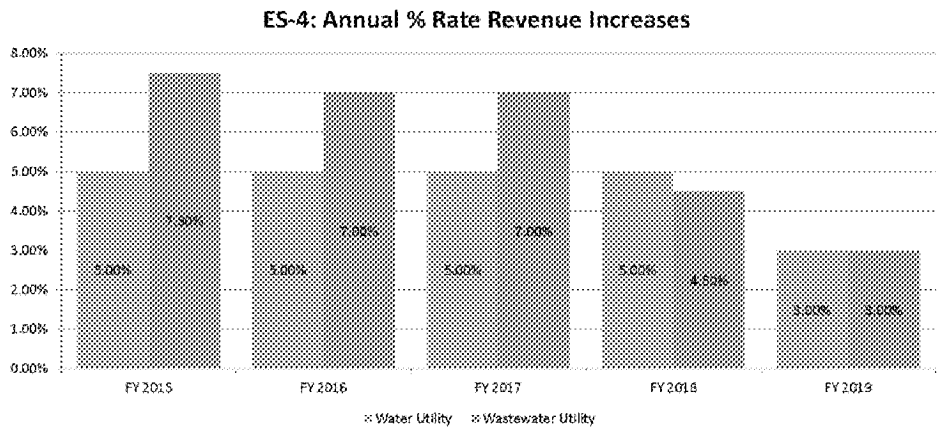
Financial Plans from Rate Model

ES-3: SUMMARY OF WATER AND WASTEWATER FINANCIAL PLANS

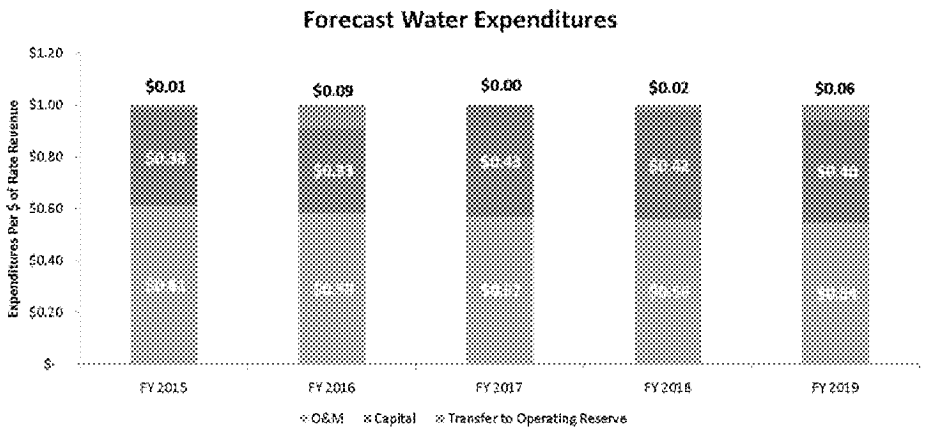
Water Utility	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019
REVENUES						
Gross Total Water Revenue at Existing Rates	$ 47,894,534	$ 32,782,575	$ 32,782,575	$ 32,782,575	$ 32,782,575	$ 32,782,575
Additional Revenue from Rate Increases	$ -	$ 1,500,000	$ 3,350,000	$ 5,054,500	$ 7,000,400	$ 9,202,500
Total Non-Rate Revenues	$ 555,000	$ 697,575	$ 913,500	$ 956,225	$ 998,531	$ 925,000
Add Transfers-in from General Fund	$ -	$ -	$ -	$ -	$ -	$ 1,000,000
Total Rate and Non-Rate Revenues	$ 48,449,534	$ 34,980,150	$ 37,046,075	$ 38,793,300	$ 40,781,506	$ 43,910,075
GROSS REVENUE REQUIREMENTS						
O&M	$ 30,500,000	$ 31,030,500	$ 31,604,500	$ 32,073,000	$ 33,156,500	$ 33,756,700
Capital	$ 14,267,515	$ 13,747,621	$ 12,346,425	$ 15,248,566	$ 17,166,000	$ 17,162,156
Transfer to Operating Reserve	$ (1,317,981)	$ 818,951	$ 3,219,150	$ 158,734	$ 457,506	$ 2,991,219
Total Gross Revenue Requirements	$ 43,449,534	$ 45,597,072	$ 47,170,075	$ 47,480,300	$ 50,780,006	$ 53,909,075
SURPLUS (DEFICIENCY) BEFORE ADJ.	$ -	$ (10,616,922)	$ (10,123,999)	$ (8,686,999)	$ (9,998,500)	$ (9,998,999)

Wastewater Utility	Budget Year FY 2014	Test Year FY 2015	Forecast FY 2016	Forecast FY 2017	Forecast FY 2018	Forecast FY 2019
REVENUES						
Gross Total Wastewater Revenue at Existing Rates	$ 37,555,374	$ 37,777,374	$ 37,777,374	$ 37,777,374	$ 37,777,374	$ 37,777,374
Additional Revenue from Rate Increases	$ -	$ 2,982,300	$ 4,113,500	$ 5,470,750	$ 7,000,000	$ 9,000,000
Total Non-Rate Revenues	$ 390,000	$ 406,765	$ 413,400	$ 421,326	$ 430,769	$ 439,093
Add Transfers-in from General Fund	$ -	$ -	$ -	$ -	$ -	$ 2,000,000
Total Rate and Non-Rate Revenues	$ 38,173,248	$ 38,966,431	$ 42,303,991	$ 43,669,550	$ 45,148,143	$ 49,216,467
GROSS REVENUE REQUIREMENTS						
O&M	$ 24,565,811	$ 25,088,555	$ 25,619,500	$ 26,569,375	$ 27,720,642	$ 28,511,472
Capital	$ 9,500,000	$ 9,500,000	$ 10,000,000	$ 10,500,000	$ 10,000,000	$ 10,000,000
Transfer to Operating Reserve	$ 3,992,564	$ 1,770,000	$ 2,553,750	$ 3,429,150	$ 500,750	$ 5,202,925
Total Gross Revenue Requirements	$ 38,173,248	$ 36,358,555	$ 38,173,250	$ 40,498,525	$ 38,221,392	$ 43,714,397
SURPLUS (DEFICIENCY) BEFORE ADJ.	$ -	$ 2,607,876	$ 4,130,741	$ 3,171,025	$ 6,926,751	$ 5,502,070

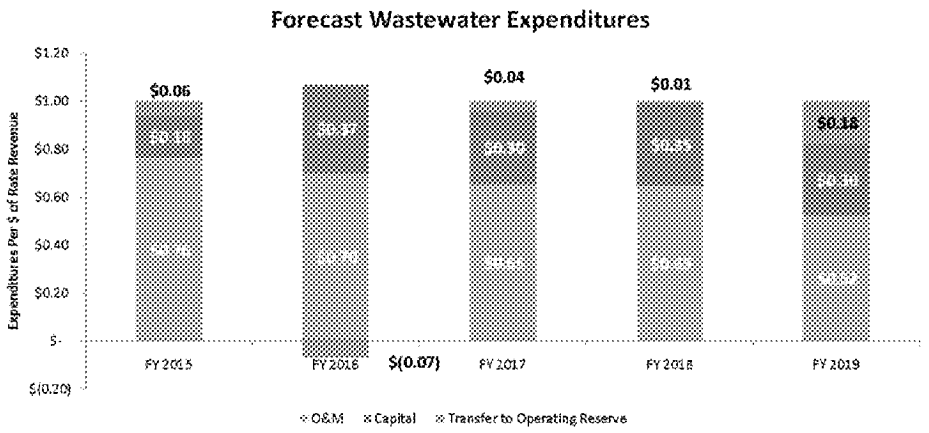
Forecast Rate Revenue Increases



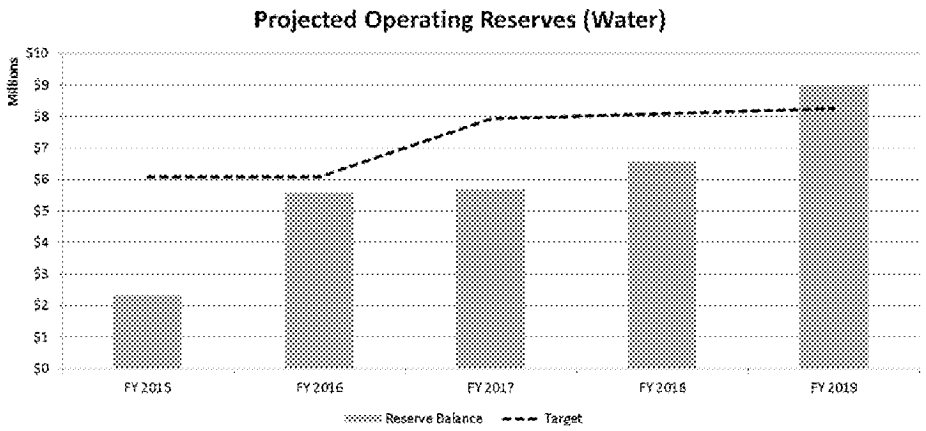
Expenditure Breakdown (Water)



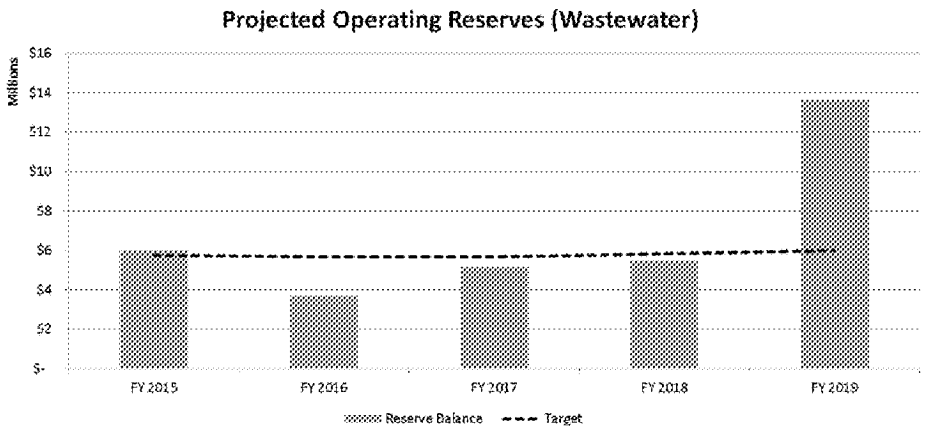
Expenditure Breakdown (Wastewater)



Projected Operating Reserves (Water)



Projected Operating Reserves (Wastewater)



COST OF SERVICE STUDY AND PROPOSED RATES

Cost of Service Study Overview

- Purpose:
  - Allocate costs to customer classes based on the demands they impose on the water and wastewater utility systems
  - Demand
    - Water: Average and Peak (Max Day, Max Hour) usage, and Customer Costs
    - Wastewater: Volume, Strength (BOD and TSS) and Customer Costs
- Process
  - Determine revenue requirement
  - Allocate revenue requirement to cost components
  - Determine units of service by customer class
  - Determine unit cost of service
  - Allocate costs to customer classes

Cost of Service Results

ES-5: SUMMARY OF COST OF SERVICE STUDY RESULTS

CUSTOMER CLASS	WATER	WASTEWATER
Allocated Cost of Service		
Total Inside City Residential COS	$ 18,347,403	$ 16,413,652
Total Inside City Commercial/Industrial COS	$ 15,262,006	$ 13,377,848
Total Inside City Lawn COS	$ 370,634	N/A
Total Inside City COS	$ 33,980,043	$ 29,791,500
Total Outside City Residential COS	$ 59,493	$ 2,383
Total Outside City Commercial/Industrial COS	$ 321,139	$ 66,791
Total Outside City Lawn COS	$ -	N/A
Total Outside City COS	$ 420,632	$ 69,174
Total System Cost of Service	$ 34,400,675	$ 29,860,674

Rate Design Issues

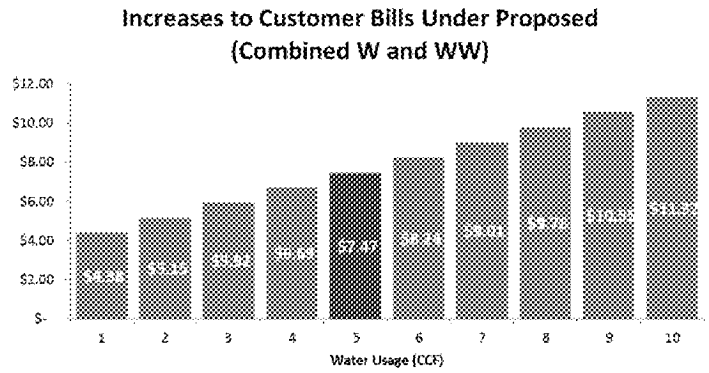
- Fixed vs. Volumetric Charges
  - Fixed ($.34 per dollar of rate revenue)
    - Typically recovers meter reading billing and collection and CS
    - Generate $.34 of every $1 of rate revenue
    - (+) Revenue Stability, (-) Larger Impact on lower volume users
  - Volumetric ($.66 per dollar of rate revenue)
    - Recovers average and peak demand costs for water, strength and volume for wastewater
    - (+) Potentially more equitable, (-) More variable revenue stream
- Maintaining Existing Rate Structure
  - Structure changes create winners and losers
  - Potential demand response (losers may use less, but winners will not use more)
  - Navigate the KWA transition and revenue collection issues, address structure changes in the future

Existing and Proposed Rates

Water Rates			
	Existing	Proposed	$
Block 1 *0-35 Ccf*	$ 7.52	7.92	$ .40
Block 2 *36-2000 Ccf*	$ 7.31	7.62	$ .31
Block 3 *>2000 Ccf*	$ 5.79	6.09	$ .30
Fixed Charge	$ 21.78	22.90	$ 1.13

Wastewater Rates			
	Existing	Proposed	$
Block 1 *0-35 Ccf*	$ 4.80	$ 5.17	$ .37
Block 2 *36-2000 Ccf*	$ 4.80	$ 5.17	$ .37
Block 3 *>2000 Ccf*	$ 4.80	$ 5.17	$ .37
Fixed Charge	$ 32.00	$ 34.48	$ 2.48

Bill Impacts



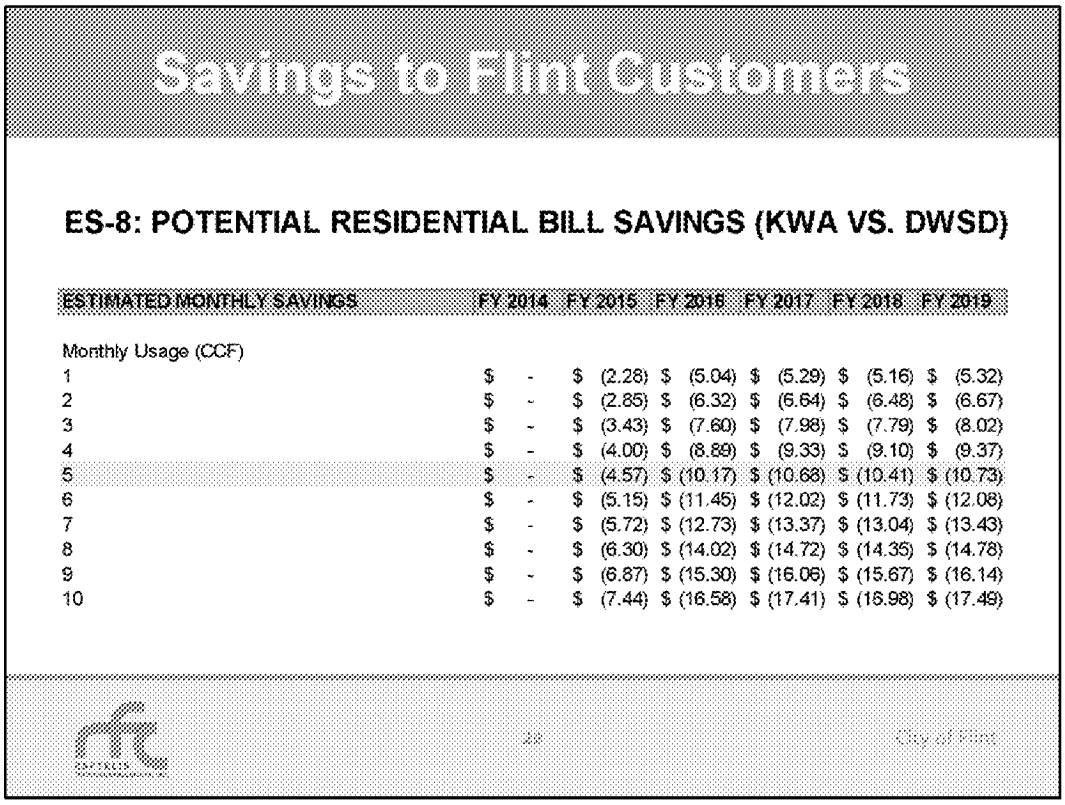
IMPACT OF TRANSITION TO KWA

KWA Project Overview

- City previously a wholesale customer of DWSD
- Contract with DWSD will cease April 17
- City staff believe cost savings over continuing with DWSD could be achieved via KWA
- KWA project will draw raw water from Lake Huron, but will not be operational by April 17
- City will draw and treat water from the Flint River in the interim
- KWA members pay a portion of project costs based on contract capacity

Analysis Overview

- RFC worked with City staff to develop separate financial planning scenarios
  - Continuing with DWSD
  - Transition to KWA
- Assumptions and Data
  - April 1 transition
  - 5% DWSD rate increases into the future
  - Similar financial planning policies in each scenario
    - Policies and strategy discussed in prior section applied to DWSD scenario
  - O&M Budget incorporating transition provided by City Staff
  - Project costs and phasing provided by City staff
  - Estimated Flint share of KWA debt service provided by City staff



For example, a City customer using 5 CCF per month would see a combined monthly bill of approximately $123.12 under the KWA. That same customer, should the City continue receiving service from DWSD, is estimated to have a bill of approximately $127.69. Consequently, the savings to the typical City is approximately $4.57 per month, or $54.84 per year.

SPEAKER NOTES PAGE

[Slide 29]

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Total Bills

RATE IMPACT 5/8" Customer	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
Monthly Usage (CCF)						
1	$ 66.10	$ 70.48	$ 74.79	$ 79.38	$ 83.12	$ 85.62
2	$ 78.41	$ 83.57	$ 88.64	$ 94.03	$ 98.48	$ 101.43
3	$ 90.73	$ 96.66	$ 102.49	$ 108.68	$ 113.83	$ 117.24
4	$ 103.05	$ 109.74	$ 116.33	$ 123.33	$ 129.18	$ 133.06
5	$ 115.37	$ 122.83	$ 130.18	$ 137.98	$ 144.54	$ 148.87
6	$ 127.69	$ 135.92	$ 144.03	$ 152.63	$ 159.89	$ 164.69
7	$ 140.00	$ 149.01	$ 157.88	$ 167.28	$ 175.24	$ 180.50
8	$ 152.32	$ 162.10	$ 171.72	$ 181.93	$ 190.59	$ 196.31
9	$ 164.64	$ 175.19	$ 185.57	$ 196.58	$ 205.95	$ 212.13
10	$ 176.96	$ 188.28	$ 199.42	$ 211.23	$ 221.30	$ 227.94

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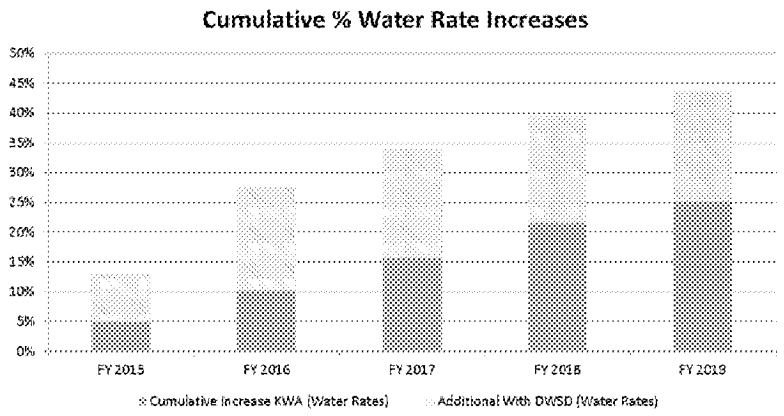
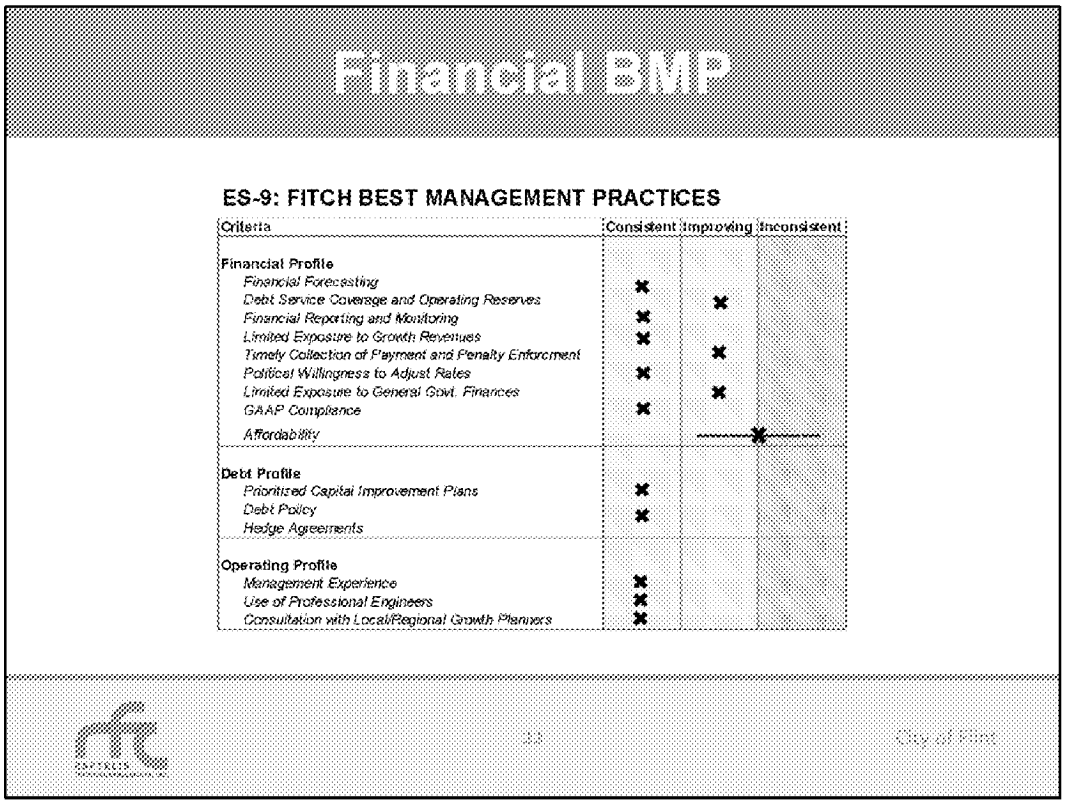
Cumulative Increase in Water Rates



FINANCIAL BEST MANAGEMENT PRACTICES



The City is working to improve consistency in three areas:

- First, as mentioned above, the financial plans build-up to the minimum recommended 90 operating reserve and should achieve this reserve, all else equal, in the next 5-6 years.

- Second, the City is working with RFC, under a separate contract, to identify sources of lost water and wastewater revenue to improve the City's revenue collections, and reduce the cost of utility service theft to paying customers.

- Third, Affordability…

- Finally, the City is currently determining arrangements whereby the general fund can repay its obligations to the water and wastewater utilities, ensuring the water and wastewater funds are not subsidizing general government operations going forward.

SPEAKER NOTES PAGE

[Slide 33]

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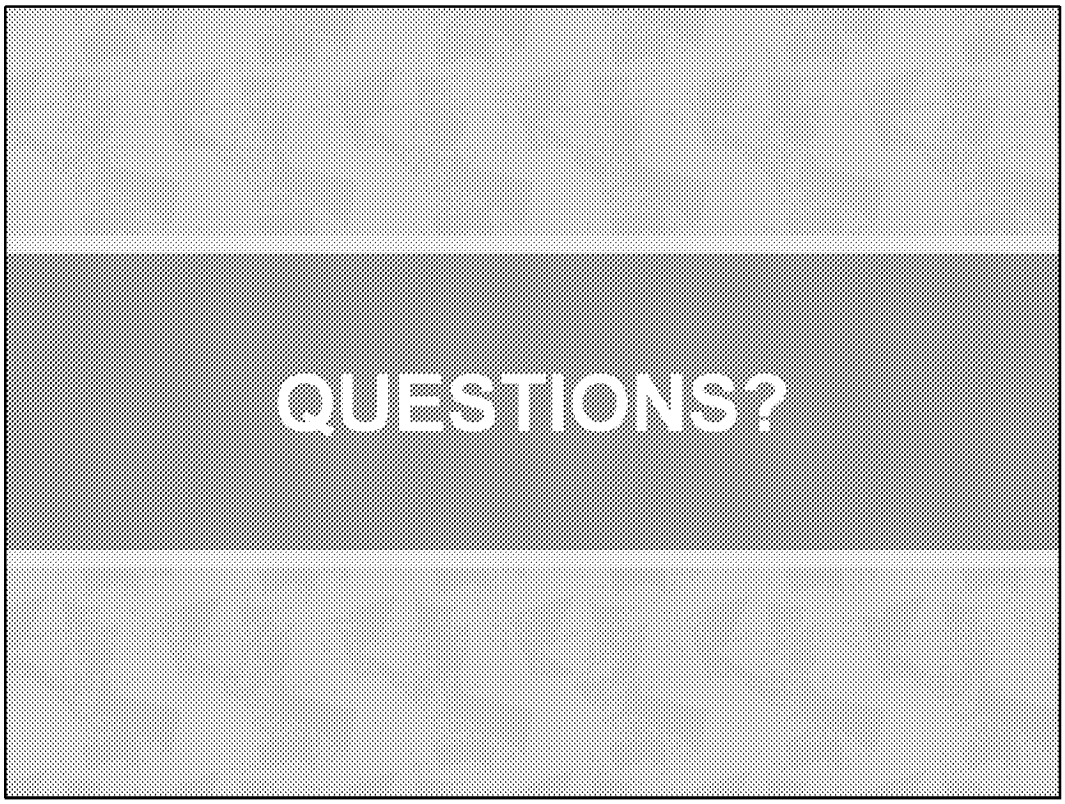
QUESTIONS?

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Thursday, April 24, 2014 4:33 PM
Subject: MEDIA ADVISORY: Flint River Water Transition Event

MEDIA ADVISORY:
City of Flint Transition to Flint River Water Ceremony

WHERE: Flint Water Treatment Plant, 4500 N. Dort Hwy. by Stewart Ave.

WHEN: Friday, April 25, 2014 at 2:00pm

Description: The City of Flint is holding a ceremony tomorrow to officially begin the transition to use of the Flint River by shutting the valve to the intake pipe from Detroit.

The DEQ has given Flint final authorization to begin water distribution from the Flint Water Treatment Plant. City, Genesee County, and Michigan Department of Environmental Quality officials will be on hand to witness this historic event and answer media questions.

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Friday, April 25, 2014 4:23 PM
Subject: PRESS RELEASE: Flint Officially Begins Using River
Attachments: Flint.River.Transition.4.25.14.pdf

For Immediate Release

City of Flint Officially Begins Using Flint River as Temporary Primary Water Source

Flint, Michigan – April 25, 2014 – For the first time in fifty years, the City of Flint is using the Flint River—part of the Saginaw River watershed—as a primary water source for city residents. Today the valve to the pipeline from Detroit was closed and the Flint River officially became Flint's water supply. The temporary switchover is scheduled to support the city's primary water needs for the next two years while construction of the forthcoming pipeline from Lake Huron is completed by Karegnondi Water Authority. Officials from the City of Flint, the Genesee County Drain Commission and the Michigan Department of Environmental Quality were all on hand to witness the historic event.

The Flint River was once the primary source of water for city residents up to the 1960s. Over the past 40 years, it has provided water to city residents as a back-up to water provided to us by Detroit. During our partnership with Detroit, Flint has had to transition to the use of the Flint River for residential water on a few different occasions, with the most recent temporary switchover happening in 2009. Each temporary stint on local water proved three things to city employees and residents alike: That a transition to local river water could be done seamlessly, and that it was both sensible and safe for us to use our own water as a primary water source in Flint.

Even with a proven track record of providing perfectly good water for Flint, there still remains lingering uncertainty about the quality of the water. In an effort to dispel myths and promote the truth about the Flint River and its viability as a residential water resource, there have been numerous studies and tests conducted on its water by several different independent organizations. In addition to what has been found in independent studies, it is also the responsibility of the City of Flint Water Service Center to continually test the water

provided to city residents. Michael Prysby of the Michigan DEQ Office of Drinking Water verified that "the quality of the water being put out meets all of our drinking water standards and Flint water is safe to drink."

For nearly 10 years Mike Glasgow has worked in the laboratory at the City of Flint Water Service Center. He has run countless tests on our drinking water to ensure its safety for public use. Mike has not only conducted tests on water provided to us by Detroit, but also on local water from nearby rivers, lakes and streams including the Flint River. When asked if over the last decade if he has seen any abnormalities of major concern in the water, his response was an emphatic, "No." In his words, "there has been nothing seen that was of major concern," during his ongoing tenure working in the lab. "The tests results have shown that our water is not only safe, but of the high quality that Flint customers have come to expect," announced DPW Director Howard Croft "we are proud of the end result."

Apart from the water plant's devotion to ensuring that our water is good, Flint is doubly blessed in having the Flint River Watershed Coalition as a separate organization dedicated to monitoring the overall welfare of local bodies of water, overseeing more than 30 different nearby locations. Rebecca Fedewa has been director of the watershed coalition since 2008. By virtue of her passion for her work and her position on the board, she is very conversant with the condition of the Flint River. In her words, "The Flint River is increasingly healthy, and completely suitable as a drinking water source." Fedewa and FRWC are working closely with the city "to monitor flows and habitats between the intake and the waste water treatment plant to ensure there are minimal to no impacts to the overall health of the river."

FRWC also invites city residents to be a part of their monitoring exercises during this spring in order "to gain firsthand knowledge in the health and vitality of our Flint River." Mayor Dayne Walling invited everyone at today's event to toast to Flint's water. "It's regular, good, pure drinking water, and it's right in our backyard," said Mayor Walling, "this is the first step in the right direction for Flint, as we take this monumental step forward in controlling the future of our community's most precious resource."

–END–

-Jason Lorenz

Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

Darnell Earley
ICMA-CM, MPA
Emergency Manager

Dayne Walling
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Darnell Earley
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–END–

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Wednesday, August 20, 2014 5:41 PM
Subject: PRESS RELEASE: Boil Water Advisory Lifted
Attachments: Boil Water Advisory Lifted 8.20.14.pdf

For Immediate Release

City of Flint Boil Water Advisory has been Lifted, All Testing Indicates Contaminant Free Water throughout the City.

Flint, Michigan – August 20, 2014 – The City of Flint's Utilities Department has received word today from the Department of Environmental Quality that the boil water advisory issued for a small portion of the city has been lifted. Testing that occurred over the past 24 hours as part of the City's normal water quality monitoring has returned showing no signs of coliform bacteria in any of the sampling areas throughout the city.

Following the initial positive test result on August 12, resampling was done on August 13th. One sample did yield a positive result for fecal coliform bacteria. On August 14, another round of resampling was done and two locations tested positive for total coliform bacteria. August 16's samples resulted in two positive samples for total coliform. August 17's samples resulted in one sample testing positive for total coliforms. Each day samples were collected within the boil water area, both upstream and downstream from the initial location. To address the total coliform issue the City increased the Chlorine and flushed more fresh water into the area. Flushing was to add chlorine to the boil water area.

Whenever a sample results in a positive for total coliform, a second test is performed for E. coli. No samples following the initial fecal coliform positive test have shown any E. coli bacteria. The city of Flint Utilities Department in conjunction with the MDEQ worked to investigate possible causes of the positive sample results in this area; these could have included water main breaks, loss of pressure, cross connection, unauthorized connection to the water system, and sampling error.

Follow-up testing needed to continue until three days of sampling showed negative results for E. coli. That testing concluded with negative results as of yesterday. The DEQ's advice to continue the boil-water advisory was due to an abundance of caution.

Total coliform is a naturally occurring and generally harmless. Total coliform positive results generate more testing, but do not initiate a boil water notice. When total coliform is detected, follow-up tests are conducted to determine if the water contained the more problematic E-coli bacteria. DEQ sampling protocols allow for 5% of the samples to contain coliform without need for immediate concern or notification.

All subsequent testing to date has indicated no E-coli. "We've gone above and beyond the DEQ sampling requirements to verify that the City's water is safe in all areas. We are working closely with the MDEQ and pleased to announce their authorization to lift the Notice. The continuation of the Notice was at the request of the DEQ so we could include the normal City wide test results", said Flint Utilities Director Daugherty Johnson.

Drinking water contamination due to E-coli or coliform bacteria is very rare due to the fact that the bacteria cannot survive in the water for very long. The colder temperature

of water in the system coupled with the regular blending of chlorine into the water makes for a hostile environment for these kinds of bacteria.

Mike Prysby, district engineer for the Michigan Department of Environmental Quality, said, "The Flint Water Treatment Plant has met all applicable drinking water standards during the entire episode including total fecal coliform bacteria. This episode was isolated to the distinct section (of the city)."

Testing of the drinking water is a part of the routine process for ensuring the quality and safety of the system which happens weekly at ten different sites around the city. The Flint Water Treatment Plant works diligently to provide water of the highest quality to everyone in the city.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
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CITY OF FLINT
OFFICE OF EMERGENCY MANAGER
DARNELL EARLEY
ICMA-CM, MPA

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CITY OF FLINT
OFFICE OF EMERGENCY MANAGER
DARNELL EARLEY
ICMA-CM, MPA

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–END–

City Hall
1101 S. Saginaw Street - Flint, Michigan 48502
810-766-7346 FAX: 810-766-7218 www.cityofflint.com

CITY OF FLINT

Department of Public Works

Dayne Walling
Mayor

Darnell Earley, ICMA-CM, MPA
Emergency Manager

Howard Croft
Director

Date: August 20, 2014

BOIL WATER NOTICE LIFTED

It is no longer necessary to use boiled or bottled water for drinking or cooking.

On August 15, 2014 you were notified of the need to boil all tap water used for drinking and cooking. Corrective measures have been taken and no coliform bacteria have been detected in follow-up testing of the system's water. The water is safe to drink. We apologize for any inconvenience and thank you for your patience.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

For more information, please contact Brent Wright of City of Flint Water Treatment Plant at 810-787-6537, bwright@cityofflint.com .

4500 N. Dort Hwy
Flint, MI 48505

This notice is being sent to you by City of Flint, water supply serial number 2310.

Howard D. Croft
Public Works Director

From: Darnell Earley <dearley@cityofflint.com>
Sent: Wednesday, September 17, 2014 7:55 AM
To: Hollins, Harvey (GOV)
Subject: Fwd: Boil Water Advisory Review
Attachments: Boil Water Advisory Advisory_Memorandum.pdf; Boil Water Advisory Review_White paper.docx

Harvey,

Take a look at the attached information and let me know if this will work for you. This is a start. If you need any additional information about this matter we can get that for you as well.

DE

---------- Forwarded message ----------
From: "Howard Croft" <hcroft@cityofflint.com>
Date: Sep 16, 2014 11:02 PM
Subject: Boil Water Advisory Review
To: "Darnell Earley" <dearley@cityofflint.com>
Cc:

Mr. Earley,

The Public Works committee meeting ran a little long and I had a late start on this but was able to complete a bullet point overview of the boil water advisory. One copy is in white paper format and the other is an official memorandum. I tried to condense this into a comprehensive overview that focused on the main aspects.

I can add further details if this is not sufficient.

Thank you,

--
Howard Croft
Public Works Director
City of Flint
1101 S. Saginaw Street
Flint, MI 48502
PH# 810.766.7346 Ext.2043
hcroft@cityofflint.com

CITY OF FLINT

Department of Public Works

Dayne Walling
Mayor

Darnell Earley, ICMA-CM, MPA
Emergency Manager

Howard Croft
Director

MEMORANDUM

TO: Darnell Earley, Emergency Manager

FROM: Howard Croft, Public Works Director

DATE: September 16, 2014

RE: Recent Boil Water Advisory

Mr. Earley,

I have compiled a bullet point list of the pertinent events surrounding the recent boil water advisory in the City of Flint. I have separated the events into five categories and attempted to condense them into a comprehensive sequence for your review.

OVERVIEW

- On Friday September 5th the City of Flint issued a boil water advisory to residents in two of ten test areas around the city.
- The advisory was due to multiple positive tests for "total coliform" and the area covered approximately 9 square miles.
- On Sunday September 7th the City expanded the advisory to include another of the ten test areas due to a subsequent positive test.
- The boil water advisories were lifted on Tuesday September 9th at 5:00 after consultation with the DEQ.

BACKGROUND

- State of Michigan Regulations requires that the City of Flint Water Treatment Plant perform testing of its water distribution system on a routine basis in ten different locations around the City.
- The tests take twenty four hours to produce valid results and are sent directly to the Department of Environmental Quality for review.
- Test results which show positive for "Ecoli" or "fecal coliform" trigger boil water notices for the test area and the advisories usually remain in effect until three consecutive tests return negative results.
- A single positive test for "total coliform" does not generally result in a boil water advisory, rather it indicates that the environment is conducive for bacteria.
- Typically, investigation into possible causes followed by corrective measures such as flushing the affected area with open hydrants will cleanse the system.
- This process is overseen by an employee who is required to hold an F-1 State License and is listed as the Operator in Charge of the Water Plant and an employee who holds an S-1 State License which is required to maintain distribution systems of this municipal size.
- The City of Flint has over 500 miles of pipe in its distribution system, much of which is over 70 years old.
- The City of Flint has over ten-thousand valves throughout its distribution system.
- The City of Flint has a professional reliability study of its system, that was updated in December 2013.

PROBLEM

- ❖ After detecting the initial positive test for total coliform, normal procedures did not clear the condition and multiple positive tests ensued.
- ❖ The continued positive total coliform tests were the cause for issuing the boil water notice.
- ❖ Additional discoveries showed that residual chlorine levels in the affected area were considerably lower than normal.

SOLUTION

- ✓ On Monday September 8th the City convened all licensed personnel, Utility Supervisors, and DPW Director to a single meeting location and held a brainstorming session with the DEQ on conference call.
- ✓ It was agreed that while not totally isolated, the concern was mainly present in a specific large transmission line that ran through all positive testing areas.
- ✓ It was determined to expand the hydrant flushing outside of the immediate impact area.
- ✓ It was found that a 24" valve which feeds this transition main was broken in the OFF position outside of the immediate impact area.
- ✓ The broken valve was preventing fresh water from being pushed directly into the impacted area while causing water to travel from the water plant around the entire city and preventing adequate circulation of fresh water.
- ✓ In repairing the broken valve, virtually all of the symptoms were erased over a 24 hour period and the chlorine count has steadily risen back to normal levels throughout the transmission main.

CONCLUSION

- ✓ The City was in direct contact with DEQ personnel daily.
- ✓ The positive tests were for "total coliform" only.
- ✓ The following statement about total coliform was approved by the DEQ and made in writing to the public as part of the recent boil water.

Total coliform bacteria are generally not harmful themselves. Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present.
Usually, coliforms are a sign that there could be a problem with the treatment or distribution system (pipes). Whenever we detect coliform bacteria in any sample, we do follow-up testing to see if other bacteria of greater concern, such as fecal coliform or E. coli, are present. We did not find any of these bacteria in our subsequent testing. If we had, we would have notified you immediately. However, we are still finding coliforms in the drinking water.

- ✓ The City of Flint is in the first year of strategic budgetary investment in an infrastructure strategy.
- ✓ The City of Flint infrastructure strategy has been, and will continue to be developed with state licensed employees, industry experts, and proven experienced consultants.

Howard D. Croft
Public Works Director

City of Flint
September 5th 2014 Boil Water Advisory Review

OVERVIEW

- On Friday September 5th the City of Flint issued a boil water advisory to residents in two of ten test areas around the city.
- The advisory was due to multiple positive tests for "total coliform" and the area covered approximately 9 square miles.
- On Sunday September 7th the City expanded the advisory to include another of the ten test areas due to a subsequent positive test.
- The boil water advisories were lifted on Tuesday September 9th at 5:00 after consultation with the DEQ.

BACKGROUND

- State of Michigan Regulations requires that the City of Flint Water Treatment Plant perform testing of its water distribution system on a routine basis in ten different locations around the City.
- The tests take twenty four hours to produce valid results and are sent directly to the Department of Environmental Quality for review.
- Test results which show positive for "Ecoli" or "fecal coliform" trigger boil water notices for the test area and the advisories usually remain in effect until three consecutive tests return negative results.
- A single positive test for "total coliform" does not generally result in a boil water advisory, rather it indicates that the environment is conducive for bacteria.
- Typically, investigation into possible causes followed by corrective measures such as flushing the affected area with open hydrants will cleanse the system.
- This process is overseen by an employee who is required to hold an F-1 State License and is listed as the Operator in Charge of the Water Plant and an employee who holds an S-1 State License which is required to maintain distribution systems of this municipal size.
- The City of Flint has over 500 miles of pipe in its distribution system, much of which is over 70 years old.
- The City of Flint has over ten-thousand valves throughout its distribution system.
- The City of Flint has a professional reliability study of its system, that was updated in December 2013.

PROBLEM

- ❖ After detecting the initial positive test for total coliform, normal procedures did not clear the condition and multiple positive tests ensued.
- ❖ The continued positive total coliform tests were the cause for issuing the boil water notice.
- ❖ Additional discoveries showed that residual chlorine levels in the affected area were considerably lower than normal.

SOLUTION

- ✓ On Monday September 8th the City convened all licensed personnel, Utility Supervisors, and DPW Director to a single meeting location and held a brainstorming session with the DEQ on conference call.
- ✓ It was agreed that while not totally isolated, the concern was mainly present in a specific large transmission line that ran through all positive testing areas.
- ✓ It was determined to expand the hydrant flushing outside of the immediate impact area.
- ✓ It was found that a 24" valve which feeds this transition main was broken in the OFF position outside of the immediate impact area.
- ✓ The broken valve was preventing fresh water from being pushed directly into the impacted area while causing water to travel from the water plant around the entire city and preventing adequate circulation of fresh water.
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From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Thursday, September 25, 2014 5:26 PM
Subject: PRESS RELEASE: Fall Hydrant Flushing
Attachments: Fall.Hydrant.Flushing.9.25.14.pdf

For Immediate Release

Fire Hydrant Flushing Scheduled to Occur in Areas of the City of Flint Beginning Friday, September 26, 2014

Flint, Michigan – September 25, 2014 – The City of Flint's Water Service Center will be doing fire hydrant flushing throughout the city beginning on Friday, September 26, 2014 that will continue throughout the weekend. The hydrant flushing is a part of regular maintenance designed to enhance the circulation of water in the system and a part of the city's effort to provide high quality water to its residents and businesses. This activity is expected to continue throughout the Fall in various parts of the City and will have no effect on water usage by residents and businesses.

Residents in the areas where flushing is taking place should expect to see activity by City crews and signs marking open hydrants. "There will be ongoing hydrant flushing as needed and all hydrants in the city will be flushed within the next several weeks," said Utilities Administrator Daugherty Johnson. "If you see a hydrant with a barricade on it we are aware of it running and its part of the normal safe operation of a large municipal drinking water system."

Water distribution systems commonly flush hydrants in an effort to reduce retention times within the system. This coupled with constant sampling ensures high quality water to the customer and helps to avoid any future boil water notices. The flushing going on currently is reactionary to water plant chlorine residual testing and is very dynamic as the chlorine residuals change at different rates.

"Hydrant flushing is a necessary display of proper system maintenance/operation and should be looked upon favorably by everyone," said Robert Bincsik, City of Flint Water Distribution and Sewer Maintenance Supervisor. "After all, hydrants are one of the only visible parts of a water distribution system and serve as a way to visually monitor the system."

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

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–CONTINUE–

CITY OF FLINT
OFFICE OF EMERGENCY MANAGER
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–END–

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1101 S. Saginaw Street - Flint, Michigan 48502
810-766-7346 FAX: 810-766-7218 www.cityofflint.com

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Wednesday, October 15, 2014 5:12 PM
Subject: PRESS RELEASE: Water Main & System Repairs
Attachments: Water Map 10.15.2014.pdf; Water Main Repairs 10.15.14.pdf

MEDIA AVAILABILITY FOR QUESTIONS AND COMMENTS WILL BE 9:00AM, THURSDAY OCTOBER 16, 2014. PLEASE CONTACT THIS OFFICE TO CONFIRM.

For Immediate Release

Major Water Line Repairs Will Take Place in Robert T. Longway Blvd & Dort Hwy. Area, More Repairs to System Scheduled

Flint, Michigan – October 15, 2014 – The City of Flint's Department of Public Works is working to repair a water main break in the area of Dort and Longway. That repair will be followed by more scheduled repairs to the system in the area which will begin on Saturday, October 18, 2014 and which should be completed by evening Sunday, October 19. The work being performed will result in improved operational control over a large transmission line running down Dort Hwy. which will include improving chlorine residuals in the southern portion of Flint. No residential customers are connected to this line; however, there will be a reduction of pressure to the system, which may cause low water pressure in the surrounding area.

In accordance with DEQ regulations the City of Flint will be issuing a Boil Water Advisory for the area (see attached map) ONLY if residents lose water service during this 24 hour period. Residents who lose water service during that time should expect to use boiled water for 24 hours after service is restored based on testing. If residents in the area do not experience a loss of water service, then there is no need to boil water. Any residents who do experience a loss of water should call the Water Service Center at 810-766-7202 between 8:00am and 4:00pm on Saturday to report the issue.

A Boil Water Advisory is restricted to drinking water and un-boiled water used for cooking. Once again, this is merely a precaution as no one in the affected area should be directly connected to the portion of the system being repaired. Low pressure and discoloration may occur for those in the area, but this is no cause for concern. The City of Flint asks that residents watch their local news station for announcement of the completion of repairs.

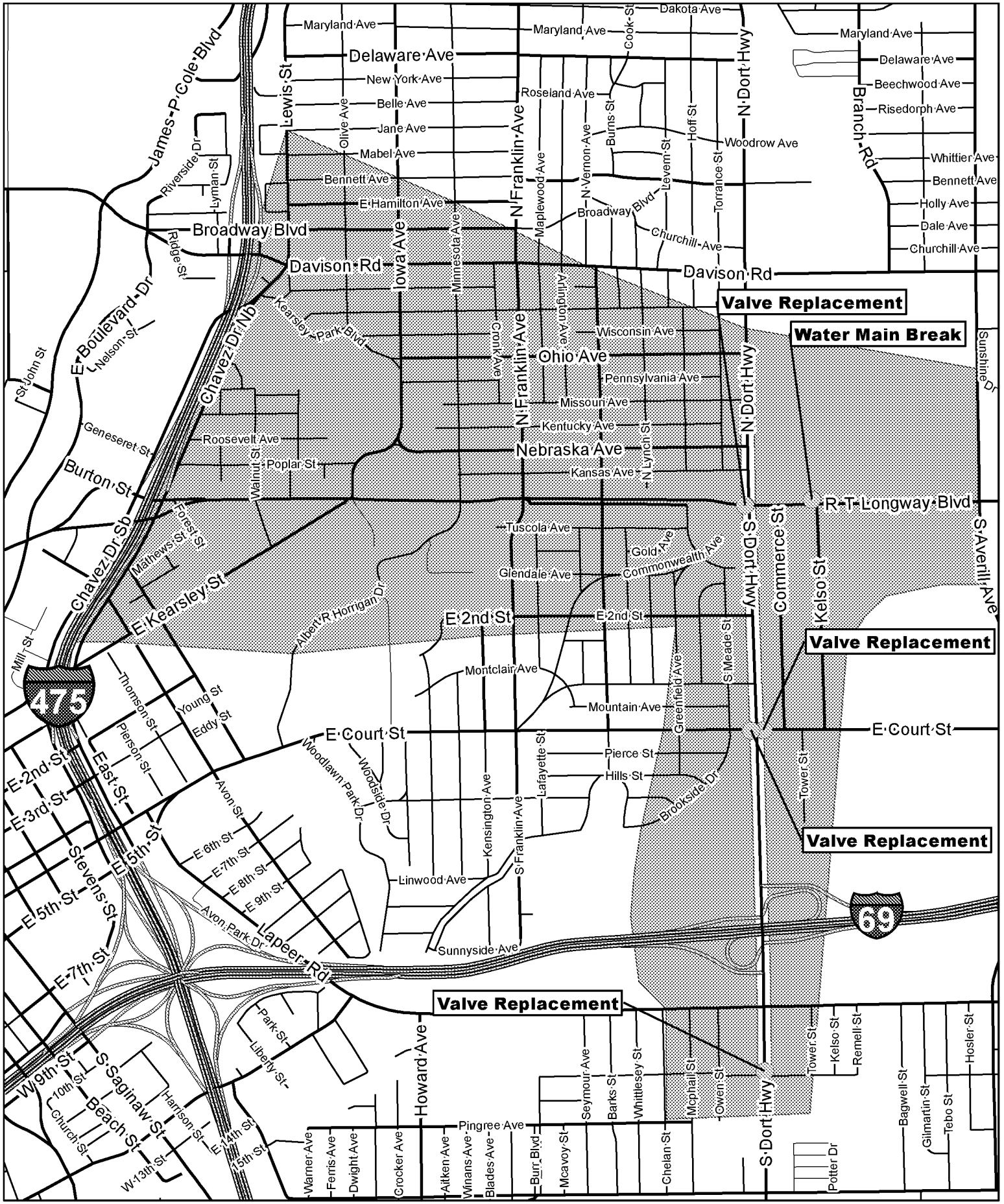
A break in the sixteen inch water main was discovered a week ago and crews have since been examining the surrounding system. As a result of that examination, a number of valves in the area were identified as "long overdue" for replacement. "The valves we are replacing in this area have needed attention for quite some time," said Flint Utilities Administrator Daugherty Johnson, "the fact that we now have the resources and planning to perform this work is a tremendous benefit for the entire City."

All of the scheduled work taking place is part of an ongoing, broader plan to examine different sections of the water system citywide for needed repairs and upgrades. Upgrading critical infrastructure such as the water system is a key part of the City's Strategic Plan, which is directly guided by the Master Plan, and part of the City's commitment to deliver the highest quality water possible.

– ATTACHMENT (Affected Area Shaded)–

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com


Valve Replacement
Water Main Break
Valve Replacement
Valve Replacement
Valve Replacement
Maryland Ave
Delaware Ave
New York Ave
Belle Ave
Jane Ave
Mabel Ave
Bennett Ave
E Hamilton Ave
Broadway Blvd
Davison Rd
Dakota Ave
Cook St
N Dort Hwy
Roseland Ave
Burns St
Hoff St
Woodrow Ave
Levern St
Torrance St
Churchill Ave
Branch Rd
Beechwood Ave
Risedorph Ave
Whittier Ave
Holly Ave
Dale Ave
James P Cole Blvd
Lewis St
Olive Ave
Riverside Dr
Lyman St
Ridge St
E Boulevard Dr
Nelson St
St John St
Chavez Dr Nb
Chavez Dr Sb
Kearsley Park Blvd
Iowa Ave
Minnesota Ave
N Franklin Ave
Maplewood Ave
N Vernon Ave
Arlington Ave
Cronin Ave
Wisconsin Ave
Ohio Ave
Pennsylvania Ave
Missouri Ave
Kentucky Ave
Nebraska Ave
Kansas Ave
N Lynch St
Sunshine Dr
Geneseret St
Roosevelt Ave
Poplar St
Walnut St
Burton St
R T Longway Blvd
S Averill Ave
Tuscola Ave
Gold Ave
Commonwealth Ave
Glendale Ave
Commerce St
Kelso St
Mathews St
E Kearsley St
Albert R Horrigan Dr
E 2nd St
S Meade St
Greenfield Ave
Montclair Ave
Mountain Ave
Mill St
Thomson St
Young St
Eddy St
Pierson St
E Court St
Pierce St
Hills St
Tower St
Brookside Dr
E 2nd St
E 3rd St
East St
E 5th St
Stevens St
E 6th St
E 7th St
E 8th St
E 9th St
Avon St
Woodlawn Park Dr
Woodside Dr
Kensington Ave
Lafayette St
S Franklin Ave
Linwood Ave
Avon Park Dr
Lapeer Rd
Sunnyside Ave
E 7th St
W 9th St
W 10th St
Church St
Beach St
S Saginaw St
Harrison St
E 14th St
E 15th St
W 13th St
Park St
Liberty St
Howard Ave
Pingree Ave
Warner Ave
Ferris Ave
Dwight Ave
Crocker Ave
Aitken Ave
Winans Ave
Blades Ave
Burr Blvd
Mcavoy St
Seymour Ave
Barks St
Whittlesey St
Chelan St
Mcphail St
Owen St
S Dort Hwy
Potter Dr
Tower St
Kelso St
Remell St
Bagwell St
Gilmartin St
Tebo St
Hosler St
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69
N
1 in = 1,438 ft
0 500 1,000 2,000 3,000
Feet
City of Flint
Date: 10/15/2014

CITY OF FLINT
OFFICE OF EMERGENCY MANAGER
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–CONTINUE–

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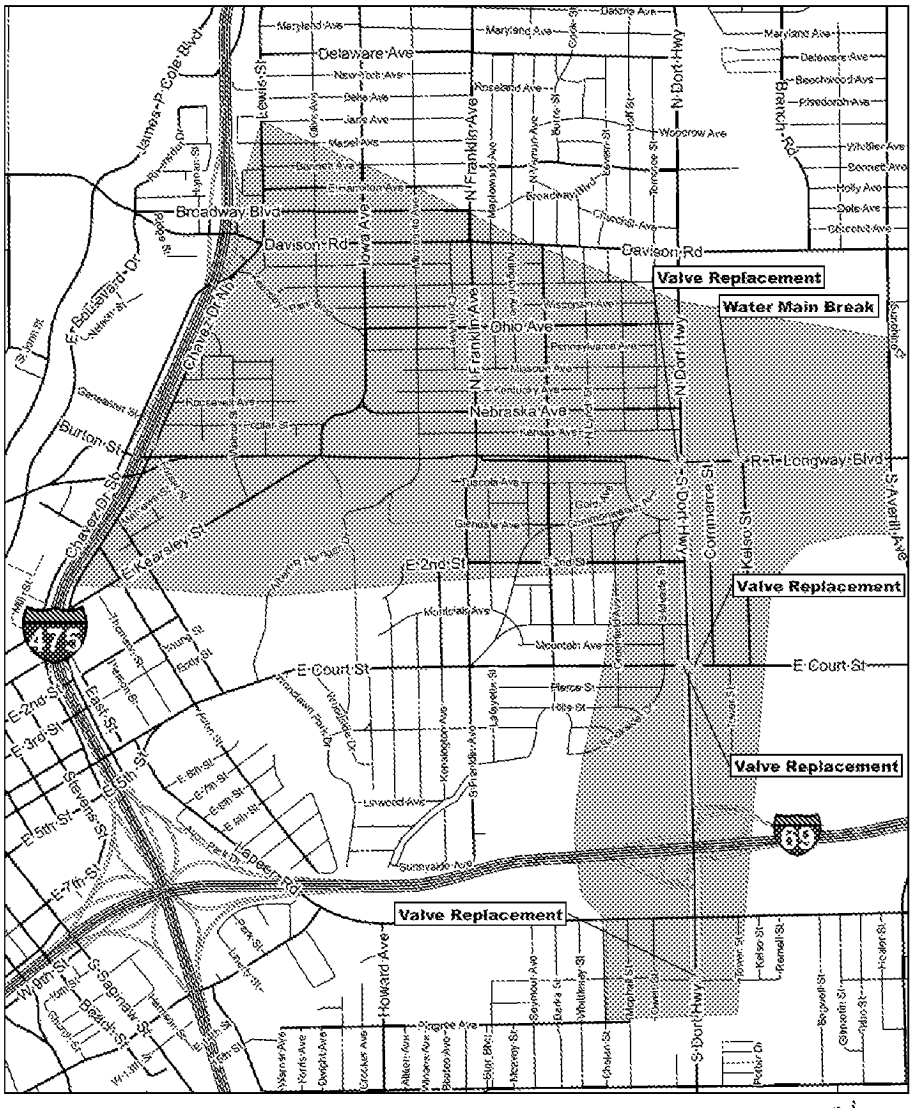

–END–

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From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Thursday, October 16, 2014 2:14 PM
Subject: PRESS RELEASE: Statement on GM Water Agreement
Attachments: GM.Water.Agreement.Statement.pdf

For Immediate Release

Water Issues for General Motors are Not Issues for Residents

Flint, Michigan – October 16, 2014 – The City of Flint is committed to ensuring that all Flint residents have safe quality drinking water. That is why we recently reached an agreement with General Motors to allow the company to temporarily use Flint Township as a water source for their manufacturing needs.

The City of Flint uses chloride as an important component in making water safe for drinking, but that can cause problems for GM's machining work. The agreement comes after GM raised concerns about chloride levels in Flint's treated water.

This temporary switch is needed to allow GM to use water that does not have the same level of treatment provided for high quality drinking water. This ensures that Flint residents will continue to have safe quality drinking water but minimizes the impact on GM's machining work. City officials continuously test drinking water to ensure quality.

–END–

-Jason Lorenz
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–END–

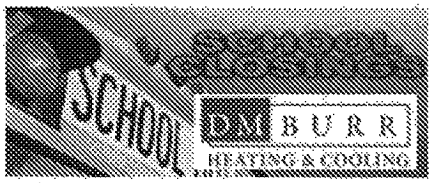
From: Maxine Murray <mmurray@cityofflint.com>
Sent: Friday, January 30, 2015 9:28 AM
To: Hollins, Harvey (GOV)
Cc: Jerry Ambrose; Clayton, Stacie (GOV)
Subject: Independent Water Analysis
Attachments: Independent Water Analysis.PDF

Good morning Mr. Hollins:

Emergency Manager Ambrose asked me to send the attached information.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Gerald Ambrose, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax



Waste Water Flow Device

Hand Held Industrial Measurement With Clamp-On Sensors & Switches

ABC12 Investigates: What's in your water?

Posted: Jan 29, 2015 3:38 PM EST
Updated: Jan 29, 2015 11:54 PM EST

By Larry Elliott CONNECT

FLINT (WJRT) - (01/29/15) - The results are in and we now have a completely independent look at what's in Flint's water supply.

For months, since Flint switched from a Detroit water supply to the Flint River as it's water source, Flint water customers have complained of smelly, cloudy, bad tasting water and blame it for a variety of health problems.

Complaints exploded earlier this month when Flint notified its water customers that a group of chemicals known as TTHM were at much higher average levels than allowed by law.

With so many questions and distrust of the answers, ABC12's Larry Elliott investigates - What's in your Water?

It seems no matter who you ask in the Flint area, there's an opinion about the city's water. Most of the issues center on the quality of the water and whether it's safe to drink.

"Right now it smells," said Flint resident Lee Miller. "We're getting water out of our own back yard now and it's costing me double what it was coming from Detroit."

"It has a funny taste to it," said Flint resident Milton Alexander.

"It could be dangerous to us, actually I don't know how dangerous it is," said Flint resident Shanika Sanders.

"I'm no cheerleader for the water department here, I think we've got a lot of issues to work on," Ken VanWagoner, of Good Beans Cafe - Flint.

Most of the issues center on the quality of the water and whether it's safe to drink, but concern over its safety reached a new high earlier this month when the city was required by the state Department of Environmental Quality to notify residents that the water had exceeded the allowable limit of a group of chemicals known as TTHM.

TTHM is in most municipal water systems and is thought by some to be a possible carcinogen in long term exposure.

It's a byproduct of chlorination, which is commonly used to help purify water. Last August, as Flint's water treatment plant worked to purify the water it was drawing from the Flint River, levels of TTHM grew to well over the EPA allowed maximum.

August test results provided by the DEQ to ABC12 show all of the eight testing sites around Flint had TTHM levels well above the legal limit.

The lowest level among the eight sites was 40 percent above the legal limit. The highest was 145 percent

more than allowed.

DEQ rules only require the city to report higher than allowed levels to the public once a year, and only if the average of quarterly tests is higher than the legal limit.

That notification went out to residents on Jan. 5. Since then, many residents have refused to believe assurances from the DEQ and the city that the water is now safe to drink.

So, we set out to do complete and independent testing to find out for ourselves exactly what's in your water.

It took a bit of research, but we finally found Water Tech, in Howell, a testing lab with absolutely no ties to Flint, just to make sure there are no questions about the test results.

After having Water Tech train ABC12's Larry Elliott on the proper methods for collecting water samples, we set out last week to randomly test five sites in Flint.

1. Downtown.

"I'm excited to see this done because this is an independent way to find out that everything's just fine," VanWagoner said.

2. The north side.

"We'd like to do kind of a whole battery of tests of your water. Oh yeah," Alexander said.

3. The west side.

"It could be dangerous to us. How about if we help you find out what's in it right now?" Sanders said.

4. The east side.

"I'm hoping for a good test and put my family at ease," Miller said.

5. Our main studio, on the south side.

We also wanted to compare whatever we're to find with Detroit supplied water, so we took a sample from the Burton water system.

Since next year Flint will connect to the new KWA pipeline, getting its water from Lake Huron, we took a comparison sample from the Saginaw-Midland water system, which currently uses Lake Huron water.

We tested all the sites for levels of TTHM. We also tested how much residual chlorine was in the Flint and Burton water supply and more importantly, we tested at two of our Flint sites for a number of other hazardous chemicals that could cause skin or other health problems.

Tests for those other chemicals are not required for public water systems, but we decided to run those tests anyway.

Here's what our independent testing shows:

All sites tested, including the Saginaw-Midland water system and the Burton system, using Detroit water, contained TTHM - but all of them were well below the EPA allowed maximum.

Saginaw-Midland water had less than a third of the maximum TTHM allowed, the Burton system had only about 25 percent of the maximum and the highest level found of all of our Flint tests showed just over 65 percent of what's allowed, all below EPA limits.

A similar byproduct of chlorination, haloacetic acids, was also well below EPA maximums in Flint's water.

We tested Flint's north and east water samples for many other hazardous chemicals that a doctor told us could cause skin or other health problems, and on both tests, not a single one of those chemicals was detected.

Since most often any smell to the water would be caused by levels of total residual chlorine, we tested that too, in both our Flint and Burton samples.

The legal limit is 4 milligrams per liter. The average of our Flint samples shows a level of about a half milligram per liter. Our test in Burton actually shows 22 percent more residual chlorine than Flint.

Our Flint sample also showed no Coliform bacteria.

We asked Chris McCarthy, of Water Tech, a few questions.

Q: How would you describe these test results?

A: "Well, for the samples received, the tests we performed, everything is within EPA guidelines for safe drinking water."

Q: Is there anything in these results that raises a red flag for you?

A: "For water quality or water safety, No."

We then asked residents if these results change their opinion of what they'll do with their water now.

"To be honest, no," Alexander said.

"It will make me feel a lot more comfortable about bathing and brushing my teeth in it, but I'm still not going to drink it and I'm not gonna give it to my kids or my dog," Sanders said.

"It makes me feel a lot more safer, a lot more comfortable knowing that it's safe to drink now, you know. I'll tell you a load lifted off my shoulders. When the kids take baths, when my wife takes a shower, you know, I know now we're safe," Miller said.

So what about those who've stood before Flint City Council with jugs of discolored water?

While Genesee County Drain Commissioner Jeff Wright points out he has no jurisdiction over Flint's water system, he says in general, discolored water like this is nearly always the result of water main breaks or repairs, and Flint has more than its share because of its aging system.

Wright also says the KWA pipeline won't change that. It will take better management of repairs and money - lots of it - to replace Flint's aging water mains.

Unfortunately for the city of Flint, those very high levels of TTHM recorded last August in Flint water tests are still required by the DEQ to be included in the next report calculating average TTHM levels.

The next test will be done next week, and city Public Works Director Howard Croft tells ABC12, because of the high levels last August, the city will again be found in violation and will be required by the DEQ to send out another TTHM notice of violation to all Flint water customers in early March, even if all new tests show levels under the legal limit.

To view the TTHM testing results from the Michigan DEQ, click HERE.

To view the results of ABC12's water tests, click on the location you'd like to see results for below:

Flint Center

Flint North

Flint East

Flint South

Flint West

Burton

Saginaw-Midland

To view the Michigan DEQ results for South Flint, click HERE.

From: Murray, David (GOV)
Sent: Monday, February 02, 2015 1:46 PM
To: Hollins, Harvey (GOV); Clayton, Stacie (GOV)
Subject: Flint grand and water points
Attachments: Flint grants and water talking points.docx

Here are the requested points. Thank you for all your help!

Dave

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

Flint grants talking points

- Gov. Rick Snyder has awarded Flint $2 million in grants for water system infrastructure improvements, part of an overall $8 million plan to help cities through the Financially Distressed Cities, Villages, and Townships Grant Program.

- Flint is among six municipalities receiving grants through the program.
    - Municipalities are eligible for the grants of they are experiencing one or more conditions indicative of "probable financial stress," as defined by Public Act 436 of 2012, the Local Financial Stability and Choice Act.
    - Under the grant program, funding may be used to pay for specific projects, services, or strategies that move a city, village, or township toward financial stability.
    - There was $8 million appropriated for the program with a $2 million cap, per local unit.

- A $900,000 grant will allow the city to hire a contractor to perform a leak detection survey of the city water lines.
    - The city will receive a map of leak locations and an assessment of leak severity, allowing the city to prioritize leak repair.
    - The project also covers the expense of conducting a water pipe line wall thickness condition assessment on a portion of the city's pipes.
    - The assessment will guide the city's water main replacement program.

- The city also was awarded $1.1 million to shut down its current Water Pollution Control Facility incinerator and replace it with new facilities which will allow for the disposal of waste in landfills.
    - The existing facilities are not up to federal Environmental Protection Agency standards.

- These are opportunities for the state government to assist Flint city leaders as they address issues related to the city's water system.

Flint water talking points from DEQ

- The DEQ Drinking Water program works with communities around the state to ensure that municipalities provide customers with clean, safe drinking water.

- Municipal water supplies are tested rigorously and regularly for more than 90 regulated contaminants, including microbial contaminants that pose an immediate public health concern.

- Flint's exceedance of the TTHM standard should reassure residents that the testing program is effective.

- TTHM is not an immediate health threat. It is a chronic concern, one that can be problematic over the course of several decades of exposure.
    - The public was notified because the law requires the city to make public notification, so that everyone can make informed decisions. This is particularly true for people with infants or those with compromised immune systems.

- The DEQ is working with the City to address the situation. Recent tests show the TTHM numbers dropping rapidly. The department will continue working with the city in the months ahead, and residents should feel confident that their water is safe to drink unless the DEQ or City notifies them otherwise.

- The discoloration and odor issues some Flint residents are experiencing are separate issues from the TTHM issue. TTHM is odorless, colorless and measured in parts per billion.

- Flint water customers who have questions or concerns about their water should first contact the city to get answers and help. They also can contact the Michigan DEQ.

From: Murray, David (GOV)
Sent: Thursday, February 12, 2015 4:52 PM
To: Fonger, Ronald
Cc: Hollins, Harvey (GOV)
Subject: RE: contact for Harvey Hollins' office

Hi Ron,

Director Hollins and Pastor Harris did speak yesterday, and they continue to engage in discussions about the Flint water issue. Everyone wants Flint residents to have clean, safe water. All parties to the discussions are gathering information about a variety of available options. There have been passionate and productive talks, and they will continue.

Dave

From: Fonger, Ronald [mailto:RFONGER1@mlive.com]
Sent: Thursday, February 12, 2015 4:10 PM
To: Murray, David (GOV)
Subject: RE: contact for Harvey Hollins' office

Ok thanks dave

From: Murray, David (GOV) [mailto:MurrayD1@michigan.gov]
Sent: Thursday, February 12, 2015 3:52 PM
To: Fonger, Ronald
Subject: RE: contact for Harvey Hollins' office

Hi Ron,

Sorry for the delay, will have something for you shortly.

From: Fonger, Ronald [mailto:RFONGER1@mlive.com]
Sent: Thursday, February 12, 2015 11:28 AM
To: Murray, David (GOV)
Subject: contact for Harvey Hollins' office

Dave:
I just spoke to Pastor Alfred Harris with Concerned Pastors for Social Action.
He talked about a conference call yesterday with Harvey Hollins, and said Hollins has asked the cities of Flint and Detroit for information about the cost of supplying water to Flint.
I tried to reach Brad Wurfel as a starting point on this but I'm not having any luck. Who should I be talking to at the state for information on this?
Thanks,

Ron Fonger
MLive Media Group
Reporter

mobile PPI
email rfonger1@mlive.com
address 540 S. Saginaw St. #101, Flint MI 48502

From: Jason Lorenz <jlorenz@cityofflint.com>
Sent: Monday, February 16, 2015 6:21 PM
Subject: PRESS RELEASE: Water Advisory Committee
Attachments: Water Advisory Committee Feb.2015.pdf

For Immediate Release

City of Flint to Form Water Advisory Committee from Members of the Community to Share Updates and Concerns

Flint, Michigan – February 16, 2015 – In response to the recent concerns regarding water quality in the City of Flint, a water advisory committee of 40 citizens consisting of business owners, elected officials and members of various community organizations is being formed. The committee's formation comes after the City hired the firm Veolia to provide an analysis of Flint's water system as well as recommendations on actions to improve water quality. The purpose of the committee will be to provide the community with ongoing information on the City's work to maintain a safe water supply and to improve quality.

In addition to gathering information from the City to share during their interactions with the community, committee members will also be expected to share the concerns they receive from the community in order for those concerns to be addressed. Mayor Dayne Walling pointed out that the level of connection between the City and the community provided by the committee is an important step toward ensuring that the public is engaged in this ongoing issue.

"Members of our community have concerns about the quality of their water, the costs associated with delivering it and the problems facing the infrastructure that brings it to them," said Mayor Walling. "As we worked to address each of these areas in turn, keeping our residents, businesses and visitors informed on the progress being made and keeping a dialogue open to hear any new concerns is crucial."

All meetings by the Water Advisory Committee will be open to the public and will be held at easily accessible locations throughout the city. Meetings will be held on a regular basis as work continues at least until the City is receiving its water from the Karegnondi Water Authority, which is anticipated to be in 2016.

The first meeting is anticipated to be during the first week of March, 2015. Letters have been sent to prospective members and confirmation is expected to be received by Friday, February 20, 2015. Any group who has not received an invitation and who would like to have a member participate can send a request to mayor@cityofflint.com.

A second, smaller group of experts in various areas surrounding water is also being formed. The Technical Advisory Committee will consist of members from the areas of health, government, industry, education and scientific research. That group will be announced later this week.

Groups and designated individuals asked to join the Water Advisory Committee:

Flint City Council President

Chair Public Works Cmte.

Concerned Pastors for Social Action

Flint & Genesee Chamber of Commerce

Hurley Medical Center

McLaren Flint

Genesys Health System

The United Way

Big Brothers Big Sisters

Flint Community Schools

Genesee County Commissioner

Genesee County Medical Society

Kettering University

Mott Community College

U of M Flint

Consumers Energy

Flint River Watershed Coalition

Hamilton Community Health Network

Tenacity Brewing (owner/city resident)

Master Plan Infrastructure team

Genesee County Drain Commissioner

The Torch (owner/city resident)

Flint Area Congregations Together

Flint Neighborhoods United

State Rep. Phil Phelps

State Rep. Sheldon Neeley

State Senator Jim Ananich

Governor's Office

U.S. Rep. Dan Kildee

COGIC Alliance

Flint Downtown Small Business Assoc.

Genesee Landlords' Assoc.

Brennan Senior Center

Hasselbring Senior Center

Valley Area Agency on Aging

The Salvation Army

Catholic Charities of Shiawassee and Genesee Counties

Genesee County Health Dept.

–END–

-Jason Lorenz
Public Information Officer
City of Flint
(810) 237-2039
jlorenz@cityofflint.com

Gerald Ambrose
Emergency Manager

Dayne Walling
Mayor

Jason Lorenz
Public Information Officer
(810) 237-2039
jlorenz@cityofflint.com

For Immediate Release

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–CONTINUE–

Gerald Ambrose
Emergency Manager

Dayne Walling
Mayor

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–CONTINUE–

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Brennan Senior Center

Hasselbring Senior Center

Valley Area Agency on Aging

The Salvation Army

Catholic Charities of Shiawassee and Genesee Counties

Genesee County Health Dept.

–END–

Message

From: Maxine Murray [mmurray@cityofflint.com]
Sent: 2/18/2015 4:40:05 PM
To: Kapp, Gene (MSP) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=KappG]; Muchmore, Dennis (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Muchmored]; Roberts, John (DTMB) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Roberts John14b]; Dempkowski, Angela (Treasury) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=a3b8a38b5e1c4418a35c03149950279b]; Baird, Richard (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Bairdr]; Carter, Jerry (MSP) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Carterj7]; Deasy, Thomas (MSP) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DeasyT]; Koryzno, Edward (Treasury) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=0a4362956b4241459f66416269ca85a6]; Clement, Elizabeth (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Clemente]; Elizabeth Murphy [emurphy@cityofflint.com]; Etue, Kriste (MSP) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=EtueK]; Hollins, Harvey (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Hollinsh]; Hill, Darryl (MSP) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=HillD16]; James Tolbert [jtolbert@cityofflint.com]; Jerry Ambrose [gambrose@cityofflint.com]; Klotz, Josephine (MSP) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=KlotzJ]; Lee, Nichole (MSP) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=LeeN3]; McGowan, Emmitt (MSP) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=McGowanE1]; Smith, Paul (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Paul Smith4e0]; Byrne, Randall (Treasury) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=f6f2b95b989d45d39f2c09f672ca0307]; Sands, Thomas (MSP) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=SandsT]; Sipes, Stephen (MSP) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=SipesS]; O'Neill, Stephen (MSP) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=ONeillS]; Saxton, Thomas (Treasury) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=5510c3cdf27f42dfb68ebdd7c7471e5b]; Workman, Wayne (TREASURY) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=91104e2ff72646419e6955d950f6ec8a]; West, Samantha (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=SimonsS2]
Subject: Bi-Weekly Conference Call Agenda
Attachments: Agenda for Conference Call with Treasury 021815.pdf

Good afternoon,

Please find attached the agenda for the conference call scheduled for **Thursday, February 19th, at 8:30 am.**

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling

Gerald Ambrose, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

City of Flint Thursday 9:00am Phone Conference Agenda

February 19, 2015

PPI Access code PPI

Last Report Status

1) Public Safety Update –

Not Responsive

2) Governor's Office

Not Responsive

3) Finance and
Administrative Update

Not Responsive

	Last Report	Status
	Not Responsive	

4) City Council Update

	Not Responsive	

5) Water Issues

a) MDEQ Violation Notice	The next TTHM sampling was conducted 2/17/15, testing will be done by the MDEQ. Our most recent internal tests show water to be within federal/state guidelines. Expect to receive a violation notice from MDEQ, due to the running average calculation, in 7-10 days. The notice to customers will go out by mid-March.	Update
b) Distressed Cities Grants	Announcements made for grant awards to Flint for Leak Detection and Sewage sludge Load Out Facility.	No Change
c) Drinking Water Revolving Fund	Discussing possible restructuring of loans.	No Change
d) Water Quality Consultant	Veolia will provide preliminary recommendations at the 2/18/15 Public Works Committee meeting - including process improvements, distributions system actions, communications improvements, and personnel support by way of new policies and procedures, training and new testing models. Priority budget, and timeline to follow within 1-2 weeks; much improvement has occurred as demonstrated by the most recent testing.	Update
e) WAC/TAC	A Water Advisory Committee and a Technical Advisory Committee have been formed as part of the process of improving communication and receiving additional feedback.	New

	Last Report	Status
6) 9-1-1 Reconsolidation Plan	Not Responsive	
7) Transition Activities	Not Responsive	
8) Other Items	Not Responsive	

From: Gerald Ambrose <gambrose@cityofflint.com>
Sent: Wednesday, February 18, 2015 5:01 PM
To: Hollins, Harvey (GOV); Workman, Wayne (TREASURY); Byrne, Randall (Treasury); Koryzno, Edward (Treasury); Widigan, Robert (TREASURY); Saxton, Thomas (Treasury)
Subject: Fwd: Copy of Presentation
Attachments: Flint Public Works Committee Interim Report V6 - Final.pptx

Veolia presentation...interim report

---------- Forwarded message ----------
From: "Nicholas, Robert" <robert.nicholas@veolia.com>
Date: Feb 18, 2015 4:03 PM
Subject: Copy of Presentation
To: <jlorenz@cityofflint.com>, "Elizabeth Murphy" <emurphy@cityofflint.com>, "Howard Croft" <hcroft@cityofflint.com>, "gambrose@cityofflint.com" <gambrose@cityofflint.com>
Cc:

Good Afternoon

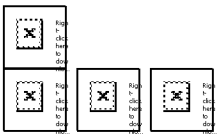
You will find attached a copy of the presentation for this afternoon.

--
Rob Nicholas
Vice President, Development
Municipal & Commercial Business
VEOLIA NORTH AMERICA

tel

+1 859 582 0104

5071 Endview Pass / Brooksville, FL 34601
Robert.Nicholas@veolia.com
www.veolianorthamerica.com



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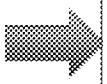
VEOLIA
City of Flint, MI
City Council Public Works Committee
Interim Water Quality Report

Veolia Scope of Work

Week 1

- Provide a review of current actions
- Engage staff, visit facilities and analyze data
- Make interim report



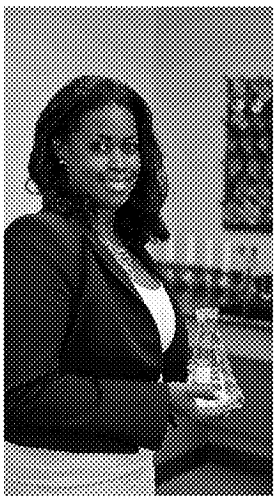
Week 2

- Carry out more detailed study of initial findings
- Make recommendations for improving water quality
- Provide a plan, cost and schedule for change

Items of Note

- **Not in scope** – studying why the change from DWSD or the history of the utility
- **What we found** – A very frustrated community and a staff trying to solve the problem, having some success but frustrated with the pace of change

Everybody Is Checking the Safety of Water



- City, state, news media, universities and other groups
- Safe = compliance with state and federal standards and required testing
  - *Latest tests show water is in compliance with drinking water standards*
  - *Monthly report available on web page*
- More than 20,000 tests required annually for city
- Strict testing requirements in place (what and how to test)

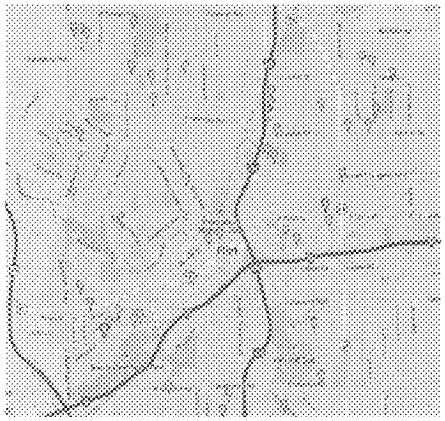
Why TTHM Notices?

- TTHM is formed as a result of the reaction between chlorine and organic material in the water
- City is required to test quarterly at 8 sites
  - *Last summer, several sites had more TTHM than allowed*
- City has reduced levels of TTHM and now all sites are in compliance
  - *Customer notification letters are required until tests are in compliance an average of four quarters*
- It will take at least 2 more quarters to lower average
  - *Even a change to DWSD water doesn't solve problem*
- Flint is not alone – hundreds of communities are facing TTHM issues

Why Discolored Water?

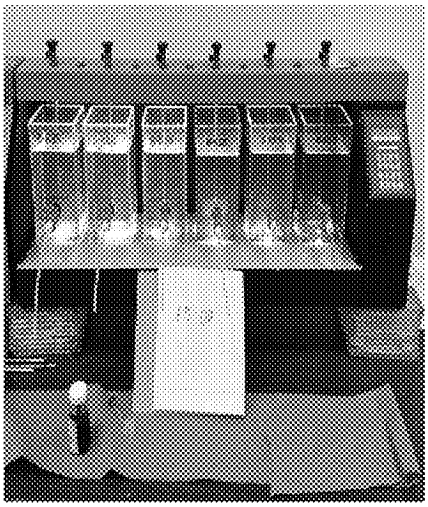
- Old cast iron pipes
- Always has been some discolored water problems – mostly after water breaks
- Efforts to reducing TTHM didn't help discoloration
  - *Doesn't mean the water is unsafe but it is not appealing and raises questions*
- City will test the water at your home – call 787-6537 or email flintwater@cityofflint.com
- Tracking customer complaints is important

Location of water quality complaints
The last 12 months – fewer than you think



Water Quality Can Be Improved

- Adjust the chemicals being fed – stop some, increase some and change some
- Provide better monitoring of water quality to help make adjustments
- Continue repair or replacement of broken parts
- Reduce the over capacity of the distribution system
- Do a better job explaining what is happening
- Do a better job of asking for help



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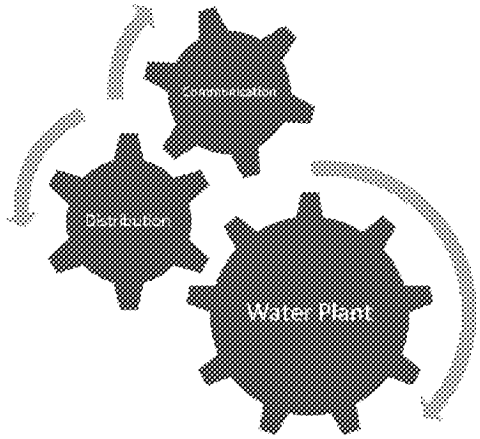
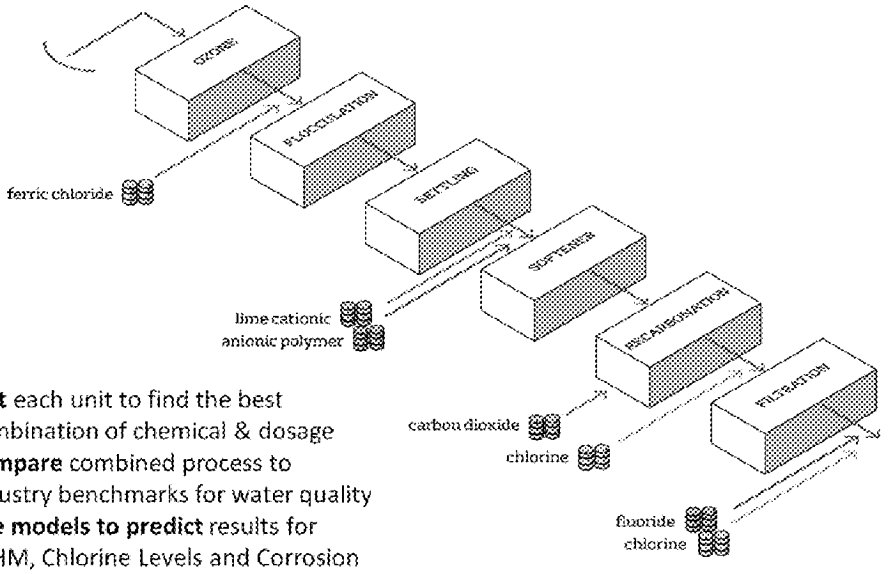
Further Explanation of Solutions

Solution Involves Coordination of 3 Activities



- Water plant improvements
  - *Optimize chemical dosages*
  - *Consider different chemicals*
  - *Change dosing points*
  - *Install granulated activated carbon*
  - *Complete plant upgrades*
  - *Implement best mgt practices*
- Distribution system improvements
  - *Fix broken valves*
  - *Ask for customer feedback*
  - *Reduce tank storage*
  - *Target line flushing*
  - *Run a hydraulic model*
- Better communication with customers
  - *Engage advisory committees*
  - *More accessible utility*
  - *Make it easy to access information*
  - *Better customer communication*

Optimize Plant Processes



- **Test** each unit to find the best combination of chemical & dosage
- **Compare** combined process to industry benchmarks for water quality
- **Use models to predict** results for TTHM, Chlorine Levels and Corrosion

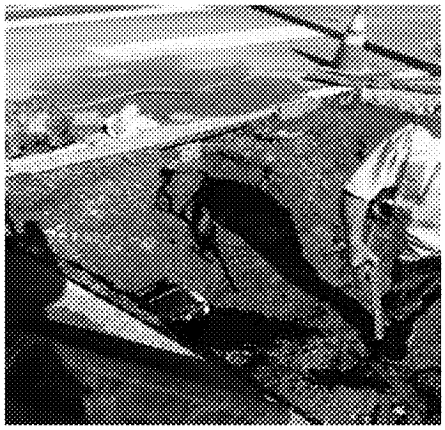
Complete Plant Construction & Re Prioritize Capital

Cost effective plan in budget

- Complete water plant renovation
  - *Target SCADA and instrumentation in plant*
- Speed up valve turning contract & provide money for replacements
- Speed up hydraulic model update to reduce tank volume
- Evaluate installing of granulated activated carbon on filters

Weather can impact timing

Digging up a water valve for repair
Need good weather to start



Implement Best Management Practices

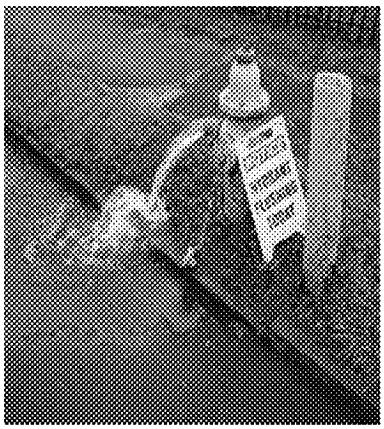
Activities to Help Operators Maintain Good Water Quality

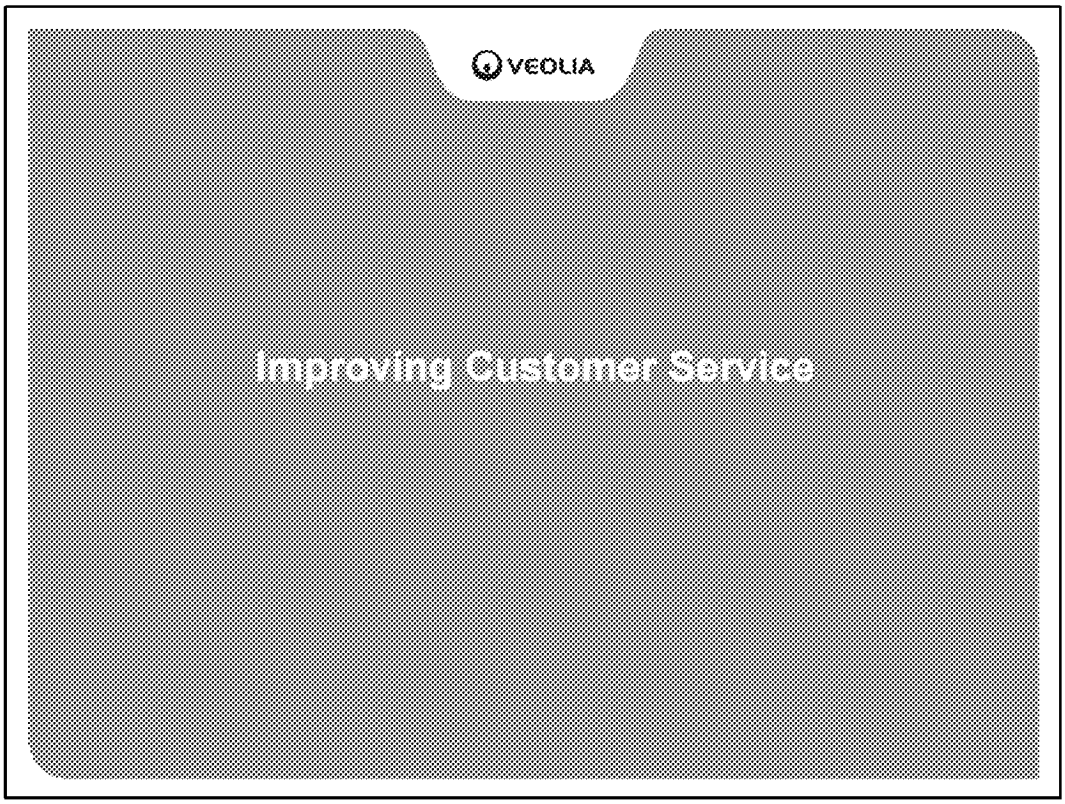
- Process Control Management Plan
- Lab QA/QC Program
- Computerized Maintenance Management System
- Asset Management System
- Training and Certification Program
- Vulnerability Plan

Distribution System Improvements

- Speed up flow of water from plant to homes – 2 weeks plant to house
  - *Find closed valves & open them*
  - *Replace broken valves*
  - *Update hydraulic model*
  - *Reduce system storage*
- Track customer complaints
  - *Test customer water*
  - *Spot flush hydrants to clean areas of stagnant water in the system*

Flushing out discolored water

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Improving Customer Service

Make It Easy to Access Information and People

Develop a proactive customer communication plan

- Create advisory committees to help direct efforts and improve flow of information
- Establish a single point of contact to manage all water quality complaints
- Provide additional customer service training to staff
- Expand neighborhood and community outreach
- Change monthly billing statements from card to envelope with information

Example – Communicate in the field

NOTICE: ANNUAL FLUSHING PROGRAM

We are conducting our annual flushing program to enhance your water quality and clean the distribution system.

DC Water crews will be flushing hydrants in your area 10:00 p.m. to 6:30 a.m. on the following dates:

9/24 through 9/30

IMPORTANT INFORMATION

- Your water supply will not be shut off during hydrant flushing.
- You may notice slight water discoloration or low water pressure.
- During this time, customers can continue normal water usage, including drinking, bathing and laundry (unless water is discolored).

If you experience discolored water during this period:

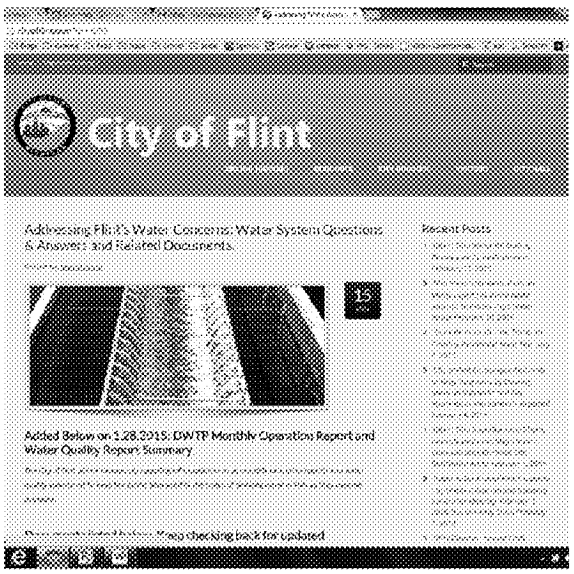
- Run your cold water taps for 15 minutes. If it does not clear up, please contact our Drinking Water Division.
- Do not run your hot water. If you experience discolored water from your hot water tap for several hours, then it is recommended to drain and flush your water heater tank.

Provide field crews with additional communications tools to use to address questions or concerns from the public

- Create door hangers, flyers, or post signs to notify customers of planned flushing activities. Be sure flushing or system maintenance is not a surprise to your customers.
- Consider providing contact information for customers to call with questions and provide a number or an email account to contact with the Department of Public Works and to encourage public comment.

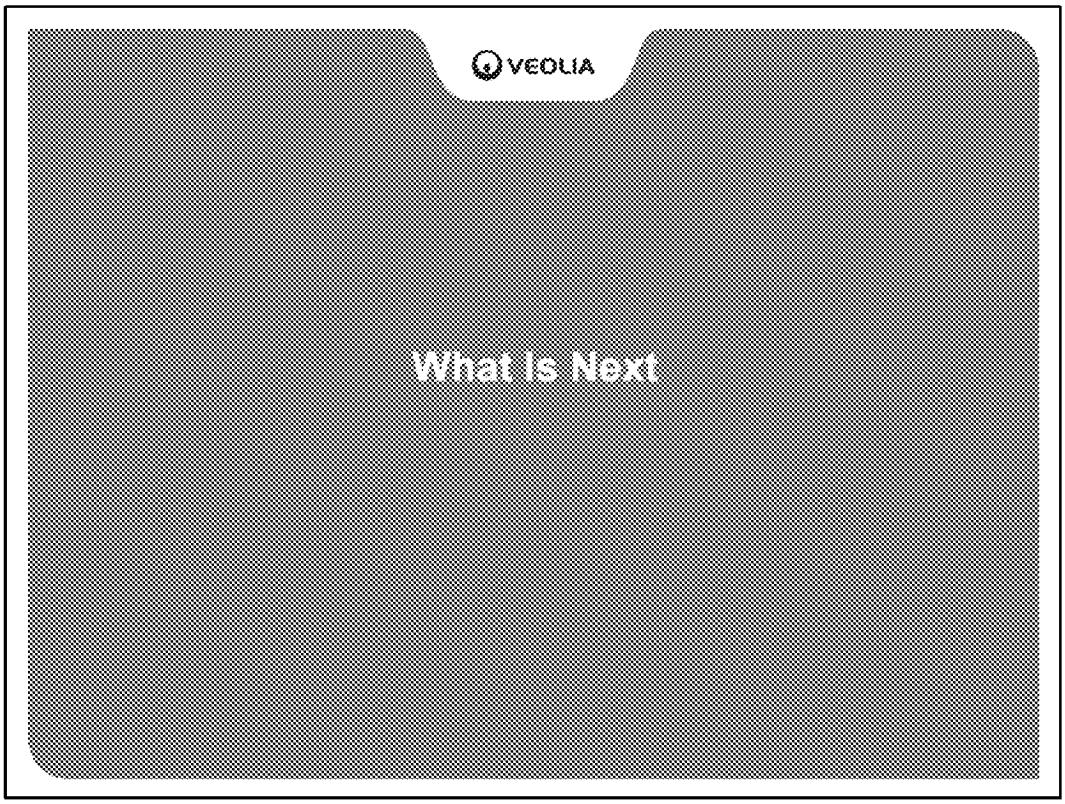
Submit door hangers provided by DC Water's Drinking Water Division

Clear, concise information is key



Simplify the reports on the web page dedicated to addressing water system questions

- Create a single point link to understand report for the public
- Use words to provide other information in plain language about testing, sampling and system or treatment plant operations
- Provide historic results from homes and other sites in the community in a clear, easy to understand format
- Continue to provide Monthly Operating Report and Water Quality Report Summary for those customers interested in more technical information
- Work with Resource Coordinator to help Flint's most impacted customers


VEOLIA
What Is Next

Next Steps

Week 1

- Provide a review of current actions
- Engage staff, visit facilities and analyze data
- Make interim report

Week 2

- Carry out more detailed study of initial findings
- Make recommendations for improving water quality
- Provide a plan, cost and schedule for change

Questions Being Heard

REMEMBER

We just started. Might not have an answer yet to your question

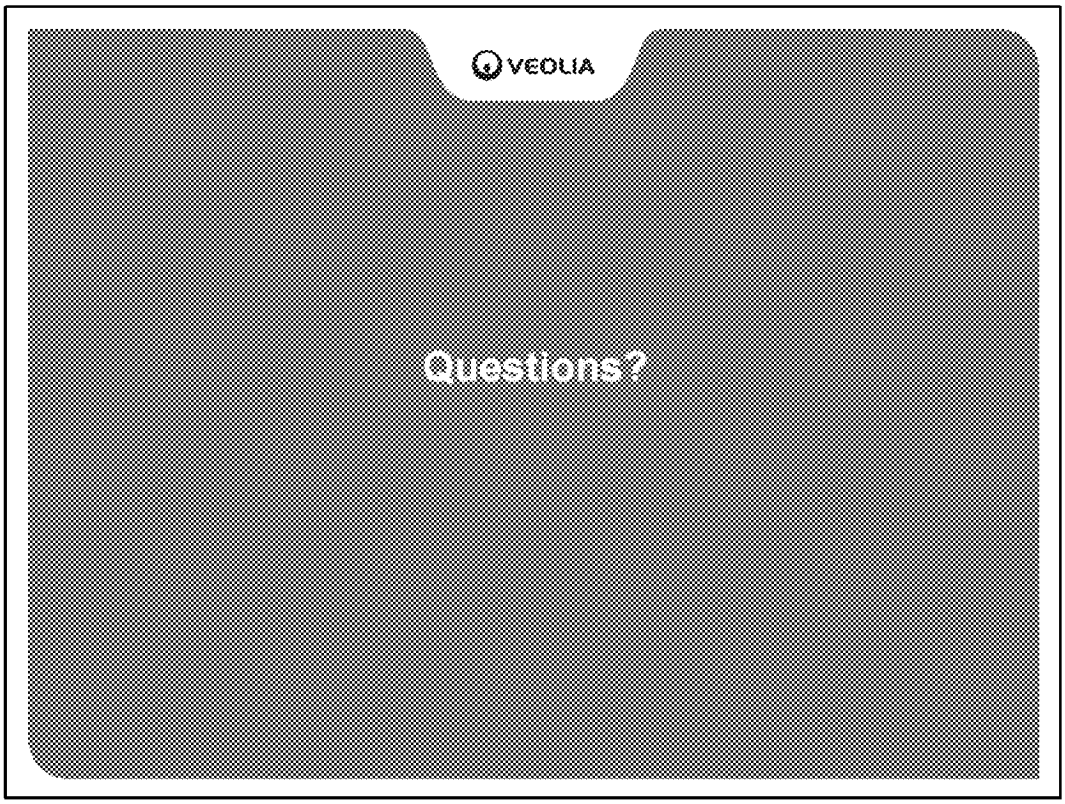
- **When will water improve -** The water has improved with current actions. More changes will occur over weeks and months because of safety reviews
- **Date of next update and final report** – An update will be provided next week and a report the following week.
- **Time frame for implementing recommendations –** The City is already started. Others a few days and some weeks or months due to State approval being required or weather.
- **Cost of changes** – Don't know yet but we are aware of the financial concerns

More Questions Being Heard

- **How are TTHM formed –** It's the reaction of chlorine to organics (leafs, dirt) in the water.
- **How to reduce TTHM –** Reduce organics before introducing chlorine and shorten time chlorine has to react with the organics
- **What causes discoloration –** Older lines, the iron parts of the system will leach iron into the water causing the discoloration. Other times its just air built up.
- **Why no discoloration with DWSD –** There was. Flint had a bad time with breaks of old line and is doing lots of construction. This stirred up the water and caused discoloration.

More Questions Being Heard

- **Can you test my water –** The city will test your water for free. But, only 2 of 20 people have taken the city up on the offer since it began offering the service.
- **Medical problems** – Some people may be sensitive to any water. Talk to your doctor. The City is communicating with the medical community.
- **Confidence that future problems will be avoided** – Recommendations will include putting programs in place to better respond to water changes and assure quality


VEOLIA
Questions?

From: Elizabeth Murphy <emurphy@cityofflint.com>
Sent: Thursday, February 19, 2015 9:49 AM
To: Hollins, Harvey (GOV)
Cc: Gerald Ambrose; Workman, Wayne (TREASURY)
Subject: Flint Water Cost Analysis
Attachments: DWSD Switch Impact (2).xlsx

Mr. Hollins,
Jerry Ambrose asked me to respond to your request for more information on the Flint water cost analysis chart which you sent him yesterday. Please see the attached chart; it contains an added analysis by Jerry. The sections for which you asked for data can not be provided as we don't calculate prices in the manner you are comparing.

Jerry's chart clearly represents what Flint has been talking about - a major increase in water rates would be necessary to pay the additional charge to purchase DWSD water.

--
Liz Murphy
Assistant to the Emergency Manager
City of Flint
810 237 2025

	B	C	D	E	F	G	H
2		Current Operations		DWSD Reconnect		Impact on Switch to DWSD on the FY 15 Flint Budgeted Water Revenue Set at $37,000,000	% Rate Increase needed to adjust to DWSD Switch
3		Monthly	Annual	Monthly	Annual		
4	Water Usage MCF	71,594	859,128	71,594	859,128		
5	Price Per MCF			$ 14.92	$14.92		
6							
7	Cost of Water Usage per MCF			$ 1,068,182.48	$ 12,818,189.76	$ 12,818,189.76	34.64%
8	Fixed Charge/Month			$ 846,700.00	$ 10,160,400.00	$ 22,978,589.76	62.10%
9	Flint Incremental Cost of Treatment Plant Operation (to continue as a back-up only)	$ 239,587.00	$ 2,875,044.00	$ (239,587.00)	$ (2,875,044.00)	$ 20,103,545.76	54.33%
10	Flint Set aside	$ 250,000.00	$ 3,000,000.00	$ (250,000.00)	$ (3,000,000.00)	$ 17,103,545.76	46.23%
11	Flint Professional Services	$ 700,000.00	$ 8,400,000.00	$ (700,000.00)	$ (8,400,000.00)	$ 8,703,545.76	23.52%
12	Cost of Water/Month Avg.	$3,083,333.33	$37,000,000.00	$ 725,295.48	$ 8,703,545.76	$ 8,703,545.76	23.52%
13							
14	Rate Increase if the New Fee Collection Level to Handle DWSD Additional Cost was $48,403,542					$ 11,403,542.00	30.82%
15							
16		**System Cost**		**Av Cost/resident**			
17		**Annual**	**Monthly**	**Annual**	**Monthly**		
18							
19	**2015 Budgeted Revenues for Water**	**$37,000,000**	**$3,083,333**	**$1,788**	**$149**		
20							
21							
22	Add fixed charge for DWSD	$10,160,400	$846,700				
23	Add commodity charge from DWSD	$12,818,190	$1,068,182.50				
24	Deduct cost for WTP water operations	-$2,875,044	-$239,587				
25	Deduct Flint Set aside	-$3,000,000	-$250,000				
26	Deduct All Maintence and Improvement Costs*	-$8,400,000	-$700,000				
27							
28	**Additional Costs with DWSD**	**$45,703,546**	**$3,808,629**	**$2,208.59**	**$184.05**		
29	Increase ($)	$8,703,546	$725,296	$420.59	$35.05		
30	Increase(%)	23.52%	23.52%	23.52%	23.52%		
31							
32	* NOTE: DEDUCTING ALL MAINTENANCE AND IMPROVEMENT COSTS IS UNREALISTIC AND FURTHER DEGRADES THE SYSTEM			Given the note, this would likely be the minimum rates would need to be increased			

From: Gerald Ambrose <gambrose@cityofflint.com>
Sent: Friday, February 20, 2015 1:17 PM
To: Hollins, Harvey (GOV)
Subject: Re: Flint Water Cost Analysis

It would be interesting to back into the numbers that Harvey wants....but I am assuming you or Al can break up the $149 into fixed and commodity.

On Fri, Feb 20, 2015 at 12:56 PM, Hollins, Harvey (GOV) <hollinsh@michigan.gov> wrote:

Ms. Murphy,

Thank you. The calculations in the table was provided by treasury and I was seeking clarification. I am not a water expert, but I learned that typically, most rates have two components.

1. Fixed-cost recovery charge

This charge is based on the size of the water meter at the home or business. Most residential customers will have a meter between 5/8$^{th's}$ of an inch and 1 inch.

2. Consumption Charge

This charge is based on the amount of water used. The rate for usage is determined by the distance and elevation of the home or business from the water source.

MCF is used in many place for calculating rates; however, since Flint is currently not using this calculation, what are the cost components that make up the $149 avg. monthly charge to the resident?

Best,

Harvey

From: Elizabeth Murphy [mailto:emurphy@cityofflint.com]
Sent: Thursday, February 19, 2015 9:49 AM
To: Hollins, Harvey (GOV)
Cc: Gerald Ambrose; Workman, Wayne (TREASURY)
Subject: Flint Water Cost Analysis

Mr. Hollins,

Jerry Ambrose asked me to respond to your request for more information on the Flint water cost analysis chart which you sent him yesterday. Please see the attached chart; it contains an added analysis by Jerry. The sections for which you asked for data can not be provided as we don't calculate prices in the manner you are comparing.

Jerry's chart clearly represents what Flint has been talking about - a major increase in water rates would be necessary to pay the additional charge to purchase DWSD water.

--

Liz Murphy

Assistant to the Emergency Manager

City of Flint

810 237 2025

From: Gerald Ambrose <gambrose@cityofflint.com>
Sent: Friday, February 20, 2015 1:19 PM
To: Hollins, Harvey (GOV); Elizabeth Murphy
Subject: Fwd: Flint Water Cost Analysis

Sorry, Harvey, message was meant for Liz Murphy so we can respond to your inquiry..

However, Liz is out until Monday.

jerry
---------- Forwarded message ----------
From: **Gerald Ambrose** <gambrose@cityofflint.com>
Date: Fri, Feb 20, 2015 at 1:16 PM
Subject: Re: Flint Water Cost Analysis
To: "Hollins, Harvey (GOV)" <hollinsh@michigan.gov>

It would be interesting to back into the numbers that Harvey wants....but I am assuming you or Al can break up the $149 into fixed and commodity.

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From: Elizabeth Murphy [mailto:emurphy@cityofflint.com]
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To: Hollins, Harvey (GOV)
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Subject: Flint Water Cost Analysis

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--

Liz Murphy

Assistant to the Emergency Manager

City of Flint

810 237 2025

From: Gerald Ambrose <gambrose@cityofflint.com>
Sent: Friday, February 20, 2015 1:41 PM
To: Hollins, Harvey (GOV)
Cc: Elizabeth Murphy; Workman, Wayne (TREASURY)
Subject: Re: Flint Water Cost Analysis

Harvey,

Quick response, subject to verification by Liz Murphy:

Components of the average charge:

$ 57.38 fixed-cost recovery charge
$ 91.63 consumption charge
$149.01

Consumption charge based on 7 units of water @$13.09 per unit

1 unit = 748 gallons of water

There may be a way to convert a unit into an MCF, but I do not know it.

Jerry

On Fri, Feb 20, 2015 at 12:56 PM, Hollins, Harvey (GOV) <hollinsh@michigan.gov> wrote:

Ms. Murphy,

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From: Elizabeth Murphy [mailto:emurphy@cityofflint.com]
Sent: Thursday, February 19, 2015 9:49 AM
To: Hollins, Harvey (GOV)
Cc: Gerald Ambrose; Workman, Wayne (TREASURY)
Subject: Flint Water Cost Analysis

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Liz Murphy

Assistant to the Emergency Manager

City of Flint

810 237 2025

From: Liz Murphy <emurphy@cityofflint.com>
Sent: Friday, February 20, 2015 2:48 PM
To: Gerald Ambrose
Cc: Hollins, Harvey (GOV); Workman, Wayne (TREASURY)
Subject: Re: Flint Water Cost Analysis

Please verify this with Al Mooney - $147 average charge is
for water and sewer. Both have fixed and commodity charges.
Liz
Sent from my iPhone

On Feb 20, 2015, at 1:40 PM, Gerald Ambrose <gambrose@cityofflint.com> wrote:

> Harvey,
>
> Quick response, subject to verification by Liz Murphy:
>
> Components of the average charge:
>
> $ 57.38 fixed-cost recovery charge
> $ 91.63 consumption charge
> $149.01
>
> Consumption charge based on 7 units of water @$13.09 per unit
>
> 1 unit = 748 gallons of water
>
> There may be a way to convert a unit into an MCF, but I do not know it.
>
> Jerry
>
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>
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>
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Liz Murphy

Assistant to the Emergency Manager

City of Flint

810 237 2025

From: Liz Murphy <emurphy@cityofflint.com>
Sent: Friday, February 20, 2015 2:56 PM
To: Hollins, Harvey (GOV)
Cc: Gerald Ambrose; Workman, Wayne (TREASURY)
Subject: Re: Flint Water Cost Analysis

You are off by a factor of 10 1 unit= 1ccf= 748 gal. 1 mcf = 100 ccf. Approximately I don't have info in front of me.

Sent from my iPhone

> On Feb 20, 2015, at 2:46 PM, "Hollins, Harvey (GOV)" <hollinsh@michigan.gov> wrote:
>
> Jerry,
> Thank you very much. I believe 1MCF equals 7480 gallons of water. If that is true then 10 units = 1 MCF.
> Best,
> Harvey
>
> On Feb 20, 2015, at 1:40 PM, Gerald Ambrose <gambrose@cityofflint.com<mailto:gambrose@cityofflint.com>> wrote:
>
> Harvey,
>
> Quick response, subject to verification by Liz Murphy:
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>
> --
> Liz Murphy
> Assistant to the Emergency Manager
> City of Flint
> 810 237 2025
>

From: Murray, David (GOV)
Sent: Tuesday, March 03, 2015 1:10 PM
To: Hollins, Harvey (GOV)
Cc: Clayton, Stacie (GOV)
Subject: RE: Flint Phone Call

Jarrod and I are both fine with 3:15.

From: Hollins, Harvey (GOV)
Sent: Tuesday, March 03, 2015 12:56 PM
To: Muchmore, Dennis (GOV); Baird, Richard (GOV); Saxton, Thomas (Treasury); Clement, Elizabeth (GOV); Murray, David (GOV); Agen, Jarrod (GOV); Workman, Wayne (TREASURY)
Cc: Clayton, Stacie (GOV); Wisniewski, Wendy (GOV); VanSickle, Michele (GOV); Pleyte, Beth (Treasury); Dempkowski, Angela (Treasury)
Subject: Flint Phone Call
Importance: High

I'd like to convene a phone call today to discuss a Flint water solution. Please let Stacie know your availability for a call today anytime between 2pm and 5pm and she will send out the appointment and conference line information. I'll loop in Gerry Ambrose once we reach consensus.

Best,
Harvey

From: Murray, David (GOV)
Sent: Thursday, March 05, 2015 1:00 PM
To: Wurfel, Brad (DEQ)
Cc: Hollins, Harvey (GOV)
Subject: Flint water

Hi Brad and Harvey,

Jarrod asked me to touch base and see if there is an update on the Flint water and filters plan.

Thanks!

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

From: Wurfel, Brad (DEQ)
Sent: Thursday, March 05, 2015 1:01 PM
To: Murray, David (GOV)
Cc: Hollins, Harvey (GOV)
Subject: RE: Flint water

Got it halfway penned before the League of Condemnation Voters report card came up. I will have some information to Harvey this afternoon. Does Jarrod want to be copied?
b

From: Murray, David (GOV)
Sent: Thursday, March 05, 2015 1:00 PM
To: Wurfel, Brad (DEQ)
Cc: Hollins, Harvey (GOV)
Subject: Flint water

Hi Brad and Harvey,

Jarrod asked me to touch base and see if there is an update on the Flint water and filters plan.

Thanks!

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

From: McNeely, Jacques (DTMB)
Sent: Friday, March 06, 2015 9:59 AM
To: Hollins, Harvey (GOV)
Subject: RE: Tap Filters

Thank you sir !

From: Hollins, Harvey (GOV)
Sent: Friday, March 06, 2015 9:48 AM
To: McNeely, Jacques (DTMB)
Subject: Fwd: Tap Filters

Fyi

Best,
Harvey

Begin forwarded message:

> **From:** "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
> **Date:** March 5, 2015 at 4:26:25 PM EST
> **To:** "Hollins, Harvey (GOV)" <hollinsh@michigan.gov>, "Wyant, Dan (DEQ)" <WyantD@michigan.gov>, "Agen, Jarrod (GOV)" <AgenJ@michigan.gov>
> **Cc:** "Baird, Richard (GOV)" <bairdr@michigan.gov>, "Wurfel, Sara (GOV)" <WurfelS@michigan.gov>
> **Subject: FW: Tap Filters**
>
> Harvey,
> Since group call Tuesday I have been working out how the filter idea might take shape.
>
> To reiterate some key points so we're all clear:
>
> 1. DEQ does not inspect individuals' homes in a situation like this. It's the city's system, their operators handle all complaints and maintenance. In fact, our folks alerted me that the city's got union rules in place forbidding any contractor from touching the system.
> 2. DEQ's role is limited to ensuring the plant is operating to state standards and the water it produces meets potability standards. The aesthetic issues drawing concern from residents – color, odor, taste – stem from a variety of things. Age of the system and prolonged lack of upkeep is the leading factor. But in some areas, another contributing factor is changes in water flow – source used to come from the south, now comes from the north, so some pipes are flowing in reverse, stirring up whatever was settled for a long time. In some sections, large pipes that historically served large communities are now serving a much smaller customer base, contributing to water stagnating in the system. In some areas, household connections are old and worn, so two neighbors may be having dramatically different experiences. My point is, the challenge takes many forms and there's no single solution that will bring sweeping change. The two consultants hired by the city have, as I understand it, both reinforced this idea in their assessments, so that's good.

3. The fix for this will be years in the making, truly. Even if full funding were available, 'big dig' projects can't all happen at once. The city needs to get an assessment of its infrastructure so it can prioritize its needs, and I understand they're working on that. In the near term, maintenance this spring / summer – things like cleaning the pipes in key sections and flushing the system via the hydrants – could offer some short term results. I know nobody wants to just wait for spring, but that is something important to keep in mind.

4. In the meantime, the group discussed possibly making home water filters available somehow. The National Safety Foundation is a Michigan company, headquartered and founded in Ann Arbor, that develops standards for all kinds of infrastructure. They're a globally recognized source for standard setting. A look at their site reveals there are myriad filtration options on the market and within each type (faucet mounted, whole house line filters, etc) there are filters that focus on different aspects of purification.

   If this idea begins to get legs, I'd suggest testing some different models on the local water at the customer level to see if they work. I'd also suggest the idea be focused on tap-mounted models to promote clean, appealing drinking water. And I'd suggest this program could be funded in whole or in part by the state, but would need to be administered by the city (reinforcing the fact that they own, operate and service the system). I've got some information on filter models below.

   Two more considerations: One, while the state has provided residents in some communities with bottled water in the past, it always has to do with their water being somehow contaminated – as in, some kind of chemical plume that impaired local drinking water sources. This would be the first time the state took steps to deal with what is an aesthetic issue on a system where the water is meeting state drinking water standards.

Water filter info:
ANSI NSF Standard 42 Covers bacteriostasis, taste and odor (associated only with chlorine removal), and other aesthetic conditions
http://standards.nsf.org/apps/group_public/download.php/19895/NSF_42-11%20-%20watermarked.pdf

ANSI NSF Standard 53 Covers health effects removal
http://standards.nsf.org/apps/group_public/download.php/19896/NSF_53-11a%20-%20watermarked.pdf

It is important to note that the filters are not required to meet all aspects of the standard, only the portions they want to make claims for. So product information for each filter must be reviewed to determine its applicability.

Most of these point of use filters are basic activated carbon filters that simply remove taste and odor specifically associated with chlorine, not other things like iron, manganese, hydrogen sulfide, etc. that can also impact taste and odor as well as color.

It is important to recognize that taste and odor is generally an individual preference and such standards have for the most part not been developed because groups of individuals may still consider taste and odor issues to exist even after levels for such a standard have been met.

Other considerations are that the test water for such filters attempting to meet the standard uses hardness levels of 170 mg/L or less. Flint's water at times may be above this level, which could then impact filter performance and longevity.

Most of these filters are designed to be replaced after 100 gallons or less of use, a period of about 3 months for most households. In addition the tests allow for initial pressure drops of up to 15 psi. This may limit use in households that already rely on minimum pressure within their household plumbing.

Regarding the health effects standards, as the Flint water system already meets such requirements, with the exception of the current TTHM locational running annual average, there is little point to the use of these filters for such a purpose.

To the point you'd asked about the other day, while Flint and Detroit are leading examples of unmaintained infrastructure, Flint is not alone by any means.

This recent infrastructure report card
http://www.infrastructurereportcard.org/michigan/michigan-overview/
Lists Michigan with a $13.8 Billion need over the next 20 years.

http://www.infrastructurereportcard.org/a/#p/state-facts/michigan

Here's a link to the 2009 Report Card for Michigan Infrastructure
http://www.michiganreportcard.com/

From the report:

"A significant portion of the state's primary distribution system is nearing 100 years old. CWS are facing a significant challenge to maintain the vast network of aging, underground infrastructure. Within the city of Detroit alone, approximately 80% of its distribution piping was installed prior to 1940, which is not unusual for CWS in Michigan."

"The age of the majority of the state's distribution system is the primary contributor to normal decay and failure. In many cases, pipe life has far exceeded useful service life. Much of the older water systems consist of undersized mains constructed of materials such as unlined cast iron pipe. Minor fluctuations in system flows or pressure may cause red water complaints and even result in pipe failure. All CWS should have routine flushing and valve maintenance programs; however many are hesitant due to the time and cost."

"Under the Stage 2 Disinfection Byproducts Rule, all CWS that disinfect are required to provide increased trihalomethane (THHM) and haloacetic acid (HAA5) monitoring due to the potential byproducts of chlorine reactions within the pipe system. Corrosion, scale, solid suspension on the interior sidewall of pipe, in addition to the age and condition of the system will require diligent rehabilitation investment to maintain system integrity."

"While better materials and advanced technology is available to replace the aging distribution system, resources remain scarce when compared with the magnitude of the

rehabilitation task at hand. Too often, distribution system replacement costs are underfunded and the first item to be slashed when budget problems arise. Overall, distribution system maintenance is reactionary in much of the older systems. Since the majority of the antiquated system will require removal and replacement beyond the CWS funding resources for systematic upgrade, a reactionary rehabilitation program is inevitable and must be funded accordingly."

Call or email me if you need anything further.
b

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713
PPI cell

From: Clayton, Stacie (GOV)
Sent: Friday, March 06, 2015 2:05 PM
To: Hollins, Harvey (GOV); 'Gerald Ambrose'; 'Maxine Murray'; Thelen, Mary Beth (DEQ); Wurfel, Brad (DEQ); Devereaux, Tracy Jo (DEQ); Busch, Stephen (DEQ); 'Natasha Henderson'; Shekter Smith, Liane (DEQ)
Subject: Flint Water Meeting
Attachments: SomnioGlobal_Ozone disinfection technology.pdf

Greetings All,

Attached is a brief overview of the information to be presented on Monday at the 1:00pm meeting with Steve Linder of the Sterling Corporation regarding Flint Water. The meeting will be held at the Sterling Corporation's offices on 106 W. Allegan, Ste. 2 in Lansing. I have sent the appointment and here are the list of attendees:

Harvey Hollins, Director, Governor's Office of Urban and Metropolitan Initiatives
Gerald Ambrose, Flint Emergency Manager
Natasha Henderson, Flint, City Manager
Liane Shekter Smith, Chief, Office of Drinking Water and Municipal Assistance (DEQ)
Stephen Busch, Office of Drinking Water and Municipal Assistance (DEQ)
Brad Wurfel, Director of Communications (DEQ)

Please let me know if you have any questions, thank you.

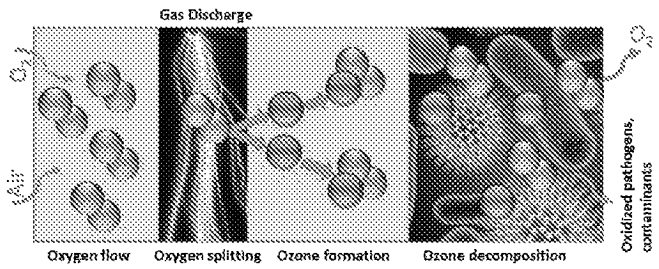
Stacie

Stacie Clayton, Assistant Director
Harvey Hollins III, Director
Governor's Office of Urban and Metropolitan Initiatives
3044 West Grand Boulevard, Ste. 14-650
Detroit, MI 48202
313.456.4994 (office)
claytons3@michigan.gov

Chemical Free Water Disinfection by Ozone

Today about 98% of water treatment facilities in the U.S. use some form of chlorine to disinfect drinking water supplies. It is a cost effective method for destroying potentially harmful bacteria and viruses. However, chlorine's ability to interact with organic compounds in water leads to trihalomethanes (THMs) formation. Especially, river or lake water with high level of organic matter require heavy chlorination to combat high level of bacteria, resulting in dangerous levels of THMs and bad smell. THMs, when ingested can encourage the growth of free radicals that can destroy or damage vital cells in the body. Besides cancer, exposure to THMs has been linked to other health issues including asthma, eczema, heart disease and higher miscarriage and birth defect rates. Further, high level of chlorine also poses serious risk to the aging infrastructure.

Chemical free water disinfection technologies such as UV light and ozone have long been recognized to be much safer than chlorination, however, their high cost has prevented wider adoption. The basic mechanism of ozone generation and disinfection is shown in the picture. Ozone has a high oxidation potential (much higher than chlorine) and a superior response time compared to other sanitizing products. Its high oxidizing potential enables ozone to break down organic matters that chlorine cannot. Some pollutants can only be oxidized by ozone. For example, ***Cryptosporidium Parvum***, a drinking water pollutant, is resistant to most disinfectants, but is effectively destroyed by ozone. Most importantly, the emission from ozone is pure oxygen and it leaves no residues.



UV light is a competing non-chemical sterilization technique. Intense UV rays break down the sensitive RNA and/or DNA of microorganisms, thus preventing the organism from reproducing. Ozone, on the other hand, oxidizes the microorganisms, thus destroying their cells completely. UV sterilization being a line of sight process, to be effective, one needs to remove most of the suspended matter prior to the treatment. In contrast, ozone oxidizes the soil or particulate matter, changing or destroying the chemistry of the soiling materials such as organic compounds.

Despite the great benefits of ozone, its widespread adoption is limited due to the high total ownership cost of current commercial ozone generators. Somnio's $AiR_2O_3^{TM}$ ozone generator is a paradigm shift in ozone generation technology. The first and only commercial barrier less ozone generator eliminates the requirement of dielectric barriers and highly filtered dried oxygen (pure or enriched) supplies, which restrain current commercial ozone generators. This groundbreaking technology brings a market-competitive, robust, energy efficient, and scalable modular device that offers a financially attractive alternative with the capability of producing varying levels of ozone depending on the application at hand.

Producing ozone cost effectively is only part of the greater story of the far reaching benefits of ozone. Applying ozone effectively for a given application requires careful and intelligent design, sensing and monitoring. In addition to its revolutionary $AiR_2O_3^{TM}$ ozone generator, Somnio

collaborates with end users to provide complete and economical turnkey solutions. Somnio's current in-house test plant incorporates all necessary safety features and automation.

From: Thelen, Mary Beth (DEQ)
Sent: Tuesday, March 17, 2015 9:55 AM
To: Hollins, Harvey (GOV)
Cc: Wyant, Dan (DEQ); Wurfel, Brad (DEQ); Thelen, Mary Beth (DEQ); Clayton, Stacie (GOV); Sygo, Jim (DEQ)
Subject: City of Flint Information - Consultants

Importance: High

Good Morning Harvey,

The consultants listed below are working with Flint and are in the best position to recommend a water filter system. The locals should be asked to use their consultants to recommend a technology.

Warren Green with Lockwood, Andrews & Newman, Inc.
630-918-2494

and

Marvin Gnagy with Veolia North America
419-450-2931

Thank you.

Dan Wyant
Director

Mary Beth

Mary Beth Thelen
Management Assistant to Director Dan Wyant
Department of Environmental Quality
Constitution Hall, 6th Floor South
Phone: 517-284-6712 or 284-6700 (new numbers)
Fax: 517-241-7401
Thelenm2@michigan.gov

From: Thelen, Mary Beth (DEQ)
Sent: Tuesday, March 17, 2015 11:39 AM
To: Hollins, Harvey (GOV); Clayton, Stacie (GOV)
Cc: Wyant, Dan (DEQ); Wurfel, Brad (DEQ); Sygo, Jim (DEQ); Thelen, Mary Beth (DEQ)
Subject: SDWA Violations - Flint

Importance: High

Dear Harvey,

Director Dan Wyant asked that I send you the following information regarding Flint.

As requested, the following information has been gleaned from our database regarding violations:

In calendar years 2013 and 2014, we've identified 1100 violations (200 are standards violations, i.e., MCLs; and 910 other violations).

This represents 326 community water supplies that had violations over these two years.

Flint has 5 violations in those 2 years (TTHM MCLs at 2 sites and 2 bacti MCLs (1 with E. coli that counts as an additional violation)).

Please let us know if you need anything further. Thank you.

Mary Beth

Mary Beth Thelen
Management Assistant to Director Dan Wyant
Department of Environmental Quality
Constitution Hall, 6th Floor South
Phone: 517-284-6712 or 284-6700 (new numbers)
Fax: 517-241-7401
Thelenm2@michigan.gov

From: Thelen, Mary Beth (DEQ)
Sent: Tuesday, March 17, 2015 4:52 PM
To: Hollins, Harvey (GOV)
Cc: Wyant, Dan (DEQ); Wurfel, Brad (DEQ); Clayton, Stacie (GOV); Sygo, Jim (DEQ)
Subject: RE: City of Flint Information - Consultants

Not that I'm aware of but I will double check with our staff that gave us the names.

Thanks.

Mary Beth

Mary Beth Thelen
Management Assistant to Director Dan Wyant
Department of Environmental Quality
Constitution Hall, 6th Floor South
Phone: 517-284-6712 or 284-6700 (new numbers)
Fax: 517-241-7401
Thelenm2@michigan.gov

From: Hollins, Harvey (GOV)
Sent: Tuesday, March 17, 2015 4:47 PM
To: Thelen, Mary Beth (DEQ)
Cc: Wyant, Dan (DEQ); Wurfel, Brad (DEQ); Clayton, Stacie (GOV); Sygo, Jim (DEQ)
Subject: Re: City of Flint Information - Consultants

Thank you. Has anyone from DEQ talked with them? Do they know I will be calling?

Best,
Harvey

On Mar 17, 2015, at 9:54 AM, Thelen, Mary Beth (DEQ) <THELENM2@michigan.gov> wrote:

> Good Morning Harvey,
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>
> and
>
> Marvin Gnagy with Veolia North America
> 419-450-2931

Thank you.

Dan Wyant
Director

Mary Beth

Mary Beth Thelen
Management Assistant to Director Dan Wyant
Department of Environmental Quality
Constitution Hall, 6th Floor South
Phone: 517-284-6712 or 284-6700 (new numbers)
Fax: 517-241-7401
Thelenm2@michigan.gov

From: Wurfel, Brad (DEQ)
Sent: Wednesday, March 18, 2015 8:10 AM
To: Hollins, Harvey (GOV)
Cc: Thelen, Mary Beth (DEQ); Wyant, Dan (DEQ); Clayton, Stacie (GOV); Sygo, Jim (DEQ)
Subject: Re: City of Flint Information - Consultants

Harvey, Steve Busch called them yesterday but the consultant said he'd already talked with you.
Regardless, sounds like it was a good conversation in that it brings the city appropriately into the mix on this idea.
Let us know what else you need. Thanks!
b

Sent from my iPhone

On Mar 17, 2015, at 4:47 PM, "Hollins, Harvey (GOV)" <hollinsh@michigan.gov> wrote:

> Thank you. Has anyone from DEQ talked with them? Do they know I will be calling?
>
> Best,
> Harvey
>
> On Mar 17, 2015, at 9:54 AM, Thelen, Mary Beth (DEQ) <THELENM2@michigan.gov> wrote:
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> > and
> >
> > Marvin Gnagy with Veolia North America
> > 419-450-2931
> >
> > Thank you.
> >
> > Dan Wyant
> > Director

Mary Beth

Mary Beth Thelen
Management Assistant to Director Dan Wyant
Department of Environmental Quality
Constitution Hall, 6th Floor South
Phone: 517-284-6712 or 284-6700 (new numbers)
Fax: 517-241-7401
Thelenm2@michigan.gov

From: Wurfel, Brad (DEQ)
Sent: Wednesday, March 18, 2015 10:08 AM
To: Hollins, Harvey (GOV)
Cc: Thelen, Mary Beth (DEQ); Wyant, Dan (DEQ); Clayton, Stacie (GOV); Sygo, Jim (DEQ)
Subject: Re: City of Flint Information - Consultants

Harvey, Steve Busch called but it sounds like you called the contractor first. Regardless, sounds like it was a good start to getting the city involved and looped in. Let us know what more you need. Thanks.
b

Sent from my iPhone

On Mar 17, 2015, at 4:47 PM, "Hollins, Harvey (GOV)" <hollinsh@michigan.gov> wrote:

> Thank you. Has anyone from DEQ talked with them? Do they know I will be calling?
>
> Best,
> Harvey
>
> On Mar 17, 2015, at 9:54 AM, Thelen, Mary Beth (DEQ) <THELENM2@michigan.gov> wrote:
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> > Director
> >
> > ---

Mary Beth

Mary Beth Thelen
Management Assistant to Director Dan Wyant
Department of Environmental Quality
Constitution Hall, 6th Floor South
Phone: 517-284-6712 or 284-6700 (new numbers)
Fax: 517-241-7401
Thelenm2@michigan.gov

From: Gerald Ambrose <gambrose@cityofflint.com>
Sent: Wednesday, March 18, 2015 4:00 PM
To: Hollins, Harvey (GOV)
Subject: draft announcement - dwrf restructuring
Attachments: March 19 announcement.docx

fyi....still being reviewed..

DRAFT

For release March 19, 2015

Emergency Manager Jerry Ambrose today authorized a restructuring of four outstanding Drinking Water Supply Revenue bonds to allow postponing current principal payments in the total amount of $2.24 million. This action will allow the $2.24 million budgeted for debt service to be used for expenses associated with maintaining safety and improving quality of the Flint water supply. Approval of the State Treasurer is required before the restructuring can occur.

Flint has recently received a final report from Veolia, its water expert advisor, making a series of recommendations to maintain and improve the Flint water supply. These recommendations, along with other input as well as items identified in the City's current capital improvements plan, will be considered as the City develops and implements its action plan to maintain and improve the Flint water supply. Discussion on the development of the action plan will begin today at the Water Advisory Committee meeting, scheduled to begin at 2:00 pm at the Flint Public Library.

The State of Michigan was instrumental in allowing the restructuring, as approvals are required by both the State Treasurer and the Director of the Michigan Department of Environmental Quality. "At all levels, the State of Michigan has been most cooperative in assisting the City of Flint as it addresses the many issues confronting the Flint water system", said Emergency Manager Jerry Ambrose." Access to $2.4 million at this time will be very helpful in implementing our action plan."

The proposed restructuring will free up funds to enable the City to more quickly move forward on recommended improvements to its water treatment and distribution system. Several recommendations for improvement are currently unbudgeted, and the $2.4 million will help assure that the most important can be implemented. Recommendations to be considered include the addition of a Granulated Activated Carbon Filter, estimated at as much as $1.5 million; acceleration of the repair and replacement of values, estimated at an additional $120,000 annually; replacement of additional pipeline replacement, estimated at $1 million per mile; and acceleration of the project to automate plant operations, estimated at $450,000. $1.315 million will become available in the City's current fiscal year, and the remaining $925,000 will be available in the next fiscal year.

The bonds are currently financed at a rate of 2.5%, and postponement of the principal payment will incur some additional interest expense over the life of the issue. Interest costs will increase by approximately 2% ($228,000) over the 20 year life of the issues.

From: Widigan, Robert (TREASURY)
Sent: Friday, March 20, 2015 11:48 AM
To: Hollins, Harvey (GOV)
Subject: FW: Flint Water Advisory Committee Meeting 03-19-15
Attachments: Veolia-Flint-Water-Quality-Report-03.12.2015.pdf; Flint-WTP-Improvements.pdf

Good morning, Harvey:

It was good seeing you yesterday.

Below is a summary of yesterday's meeting, with attachments that I sent out this morning. There was a great deal of information discussed at the beginning of the meeting before you arrived. I wanted to pass it along to you.

If you have any questions, comments, or concerns please let me know.

Thank you,

Robert Widigan|Office of Fiscal Responsibility
State of Michigan|Department of Treasury
430 W. Allegan Street|Lansing, MI 48922
Office (517) 335-2130|Cell PPI
WidiganR@michigan.gov

From: Widigan, Robert (TREASURY)
Sent: Friday, March 20, 2015 11:32 AM
To: Byrne, Randall (Treasury)
Cc: Workman, Wayne (TREASURY) (WorkmanW@michigan.gov); Koryzno, Edward (Treasury); Cline, Richard (Treasury)
Subject: Flint Water Advisory Committee Meeting 03-19-15

Randy,

Yesterday's meeting was very informational; however, discussion was cut short by understandably upset water customers. The main points of information relayed during yesterday's meeting are as follows:

1. The City provided a table of water improvements* currently that the City is in the process of implementing or currently evaluating.
    - The City has built a hydraulic model to assist the City in identifying the locations of bad valves.
    - The City restructured four outstanding Drinking Water Revolving bonds allowing the City to afford an additional $2.24M towards Capital Improvements in Water. With $2.24M the City will:
        i. Installing a $1.5M Granulated Activated Carbon Filter (GAC). This will provide the best reduction possible and provide better than 90% removal of total organic carbon (TOC), dramatically reducing the potential for total trihalomethane (TTHM) formation. This entire project needs to be done by early June to assure a flow of water throughout the system. Several months are required for the engineering design, State approval, bidding of work, and installation of the GAC. According to the Veolia report, this process needs to begin now.
        ii. Accelerate repair and replacement of values, estimated at an additional $120K annually.

iii. Implement a process control management plan (PCMP) to increase efficiency and professionalism by allowing operators on the day shift to communicate with the night shift, ensure operators follow the same treatment plan for the water, ensure adjustments are unified between all operators, and inform staff as to what the process is when water quality set points begin to drift away from its desired quality levels. This will help the City transition to lake water. Estimated at $25K annually.

iv. Automate plant operations to allow the City to monitor activities throughout the entire plant, estimated at $450K.

2. Department of Public Works director Howard Croft provided a breakdown of FY 2015 Water and Sewer budgeted expenditures*, and explained 96% of the $70M is needed if the City uses DWSD or river water as its source.

3. Also provided was a document* with answers to all 61 questions asked at the last Water Advisory Committee.

Suggestions for the City:

1. The facilitators seemed to have inexperience in mediating or controlling the flow of the meeting. This lead to upset outbursts from the public, which stopped any information from being communicated to the public. The City may wish to hire professional mediators with experience in facilitating large public meetings.

2. The agenda did not include time for public comment. This gives the perception that the meeting is "closed off" to the opinions of the residents.

3. It was mentioned by the Mayor, that he City charges an initial cost of $425 to new renters. This fee appears to higher than anticipated, and more information should be provided regarding fees and fee structures.

If additional information is desired, please let me know.

*Sources: City of Flint, Water Advisory Committee meeting handouts (once received form the City they will be provided to anyone interested) and Veolia's Water Quality Report, dated: March 12, 2015.

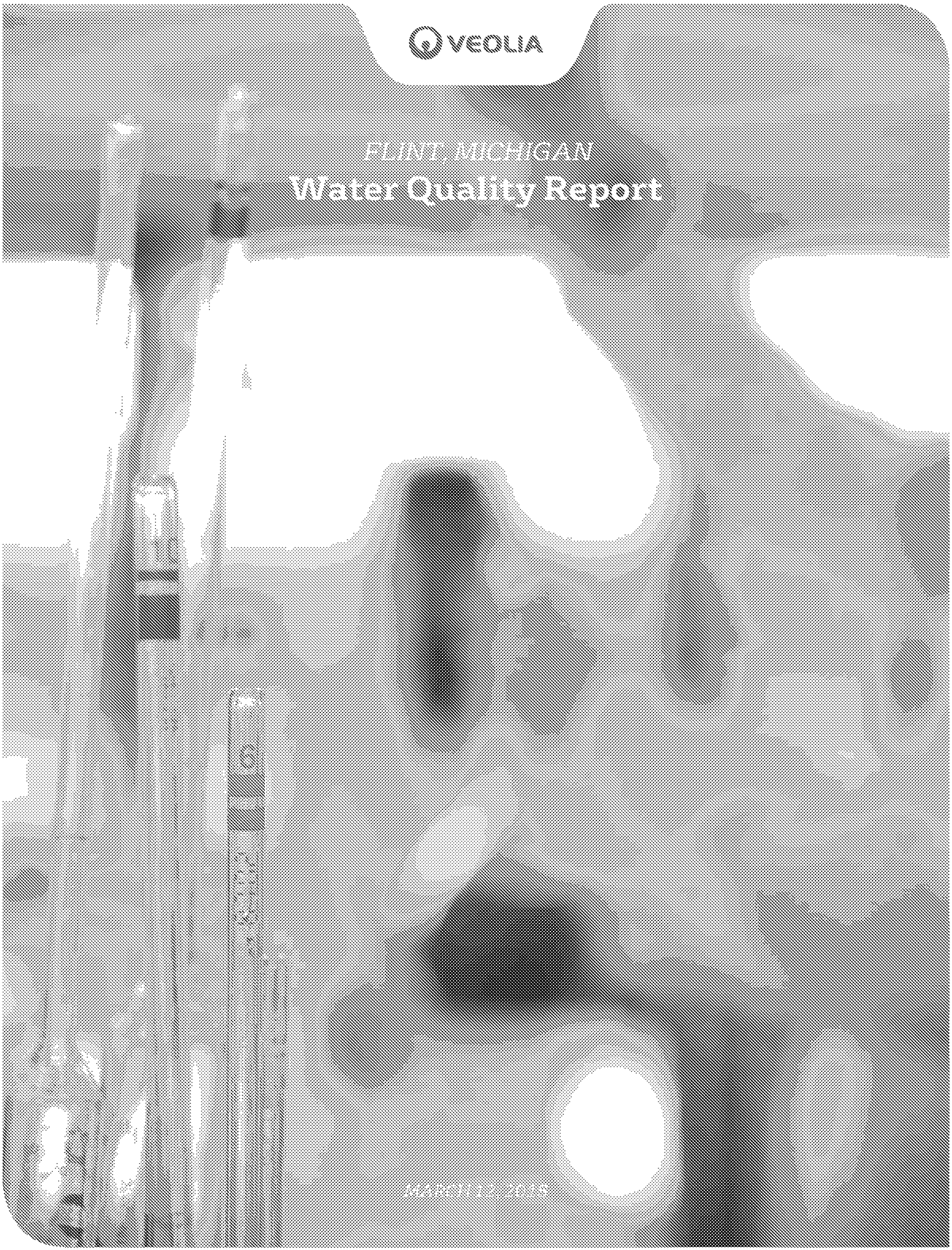
Regards,

Robert Widigan | Office of Fiscal Responsibility
State of Michigan | Department of Treasury
430 W. Allegan Street | Lansing, MI 48922
Office (517) 335-2130 | Cell PPI
WidiganR@michigan.gov

VEOLIA

FLINT, MICHIGAN

Water Quality Report



Water quality report **1**
> Executive Summary 1
> Review of actions taken to date 2
> State report 3
> Veolia's recommendations 4
> Conclusions and next steps 9
> Results expected 11

Water Quality Report
March 12, 2015

FROM
Veolia North America

TO
Emergency Manager Gerald Ambrose

Executive Summary

The City of Flint changed water sources, transitioning from Detroit's system to the Flint River. This change created water treatment challenges that have resulted in water quality violations. Aging cast-iron pipe has compounded the situation, leading to aesthetic issues including taste, odor and discoloration. Public interest and scrutiny of the drinking water system intensified following the distribution of required public notices of violation.

The City of Flint has made a number of good decisions regarding treatment changes that have improved water quality. However, this is a very complex water quality issue and the City is seeking additional advice on what to do to ensure healthful drinking water for the community.

Veolia appreciates the City's decision to seek independent third parties to review current treatment processes, maintenance procedures and actions taken to date, and provide ideas for improvement. We are pleased to present this final report to the City of Flint following our experts' 160-hour assessment of the water treatment plant, distribution system, customer service and communications programs, and capital plans and annual budget.

This report provides recommendations and a roadmap for improvement, though our engagement was limited in scope. Our assessment included reviewing actions taken by the City to date, validating the City's plans going forward, and making recommendations for ideas not being considered.

Although a review of water quality records for the time period under our study indicates compliance with State and Federal water quality regulations, Veolia, as an operator and manager of comparable utilities, recommends a variety of actions to address improvements in water quality and related aesthetics including: operational changes and improvements; changes in water treatment processes, procedures and chemical dosing; adjustments in how current technologies are being used; increased maintenance and capital program activities; increased training; and, an enhanced customer communications program.

We are also providing a recommended schedule and estimated costs for implementing changes. It is our desire to help Flint residents and public officials better understand the current situation so that informed decisions can be made to ensure safe drinking water for the city's customers.

Review of Actions Taken to Date

To address water quality issues, the city has made operational changes, sought help from the State, hired engineering firm Lockwood, Andrews & Newnam, Inc. (LAN) to provide additional advice, and hired Veolia for an assessment from a utility operator's perspective. The City has also reached out to different specialty vendors (chemical suppliers, filter companies and tank aeration companies) for information about products to help with the TTHM issues. These are logical steps to take.

Flint is not alone in dealing with TTHM problems, as many utilities across the country are facing this challenge. The City appears to be following standard steps that many of those communities are taking to successfully correct the problem.

Although the primary focus of this review was based on solving the TTHM problem, the public has also expressed its frustration over discolored and hard water. Those aesthetic issues have understandably increased the level of concern about the safety of the water.

The review of the water quality records during the time of Veolia's study shows the water to be in compliance with State and Federal regulations, and, based on those standards, the water is considered to meet drinking water requirements.

The City has been proactive in its efforts to reach out to the medical community, to set up a phone number and email address to receive complaints, to post State Water Quality reports, to provide the list of EPA required water tests, and offer to test the water at customers' homes.

From our review, these numerous efforts demonstrate how the city is trying to be transparent and responsive beyond what many other communities might do in similar circumstances.

State Report

The Michigan Department of Environmental Quality (MDEQ) has requested specific actions be taken related to the total trihalomethane (TTHM) issues. The February 2015 report from LAN (*Operational Evaluation Report TTHM Formation Concern*) indicated apparent reasons for the elevated levels of TTHM in the distribution system. These generally relate to high Total Organic Carbon (TOC) in the water source, improperly operating equipment both in the plant and the distribution system, less-than-optimal plant TOC removal and old cast-iron pipe in the distribution system. **Our assessment confirms that these reasons are likely given our on-site laboratory testing and analysis, as well as our first-hand observations.**

Due to time constraints, LAN's report to the State was submitted prior to Veolia's final analysis and recommendations, and contained a number of key initial and contingent steps the City should consider, including:

Initial Actions

- Hire a Third Party Water Quality Expert to Complete Independent Audit
- Obtain a THM Analyzer
- Carry Out Jar Testing
- Water Plant Optimization Softening
- Water Plant Optimization Disinfection of Filter Beds (Pre-Chlorination)
- Water Plant Optimization Polymer Aid to Coagulation and Flocculation
- Increase Water Main Flushing
- Water Modeling Cedar Street Pump Recirculation
- Water Modeling West Side Pump Recirculation
- Broken Valve Locations
- Increase Flushing

Contingent Actions

- Fix Ozone System
- Start Feeding Coagulant and Flocculation Polymer
- Convert to Lime and Soda Ash Softening
- Change Disinfection to Chloramine or Chlorine Dioxide Temporarily
- Install Pre-Oxidant at Intake
- Replace Filter Media Implement Advanced Treatment
- Increase Main Flushing
- Continue Valve Replacement
- Emphasize Cast Iron Pipe Replacement

Veolia's Recommendations

While many of Veolia's recommendations match the initial assessment provided by LAN, our approach, as an operator and manager of comparable utilities, considers a more comprehensive solution. These improvements include operational changes, differences in water treatment regimes and chemical dosing, increased maintenance, and increased training.

- **Addition of Permanganate** – The addition of a permanganate chemical will help reduce ozone demand as well as chlorine demand. The reduction of ozone is needed to help eliminate the possibility of violating the bromate limit. The addition of the chemical will require state approval, submission of design documents for approval, procurement of the equipment and installation. The State has indicated they will work with the City on expediting review and approval of any requested changes. The required dosage of permanganate is estimated to range from 0.5 mg/L to 1.2 mg/L with a corresponding price of $160,000 to $320,000 per year. (Please note – The water in the river is dynamic which means it will change with weather, seasons and other factors. The estimates provided are based on bench testing at a given time and as such require the operators to test water and to verify chemical dosages on a frequent basis.)
- **Reduction of Ozone Feed** – Treating water is a delicate balance - increasing ozone to fix the TTHM problem can raise bromate levels to a point of violation. The introduction of permanganate is being recommended to reduce the demand for ozone so that feed rates will not exceed 5 mg/L. The current ozone dosing has been as high as 8 mg/L and, as such, if allowed to continue, will increase the risk of violating the bromate levels.
- **Increase of Ferric Chloride** – Four coagulants were tested by Veolia -ferric chloride, ferric sulfate, polyaluminum chloride (PACl) and aluminum chlorohydrate (ACH). Ferric chloride and ACH were found to be the best choice of product for effectiveness in removing TOC, a precursor to TTHM formation. Current ferric chloride dosages are too low and dosages of 100 mg/L or more are recommended. Again, please note, that the amount of chemical needed changes with the nature of the river and as such, water must be tested multiple times a day with corresponding changes in chemical dosages. This increase to 100 mg/L is twice what is currently being fed and much higher than what had previously been fed last year. The increase in chemical costs could be up to $1,000,000 per year. This change in dosage (using ferric chloride) can be made immediately without state permit review.
- **Reduction of Lime** – Lime is currently being overfed. A higher dosage of lime does not necessarily mean better treatment. A review of different dosages with jar testing indicates that the current dosage of 280 mg/L can be reduced to 230 mg/L. This represents a potential range of savings of up to $270,000 per year. This change can be made immediately. It should be noted that the current softening equipment is in poor condition, which does complicate the treatment process with a poor balance of flow between the two basins, weirs that are not level causing bypassing with the softener basins, and simply old mechanical equipment that periodically breaks down. This equipment is not going to be needed when a change to lake water occurs. Addition of soda ash to help further reduce hardness in cold weather might require dosages up to 40 mg/L with an annual chemical cost up to $320,000. There have also been some questions or complaints from the public regarding hard water. The water entering the plant is currently 360 mg/L and the plant is reducing that level of hardness to about 210 mg/L. Optimization of the dosage can reduce the hardness

further to about 180 mg/L. This reduction however has been sporadic as equipment breakdowns and high flows have caused problems keeping the softening process on-line. As we have noted before, the dosage needs to be adjusted daily or more often based on process control monitoring. The raw water hardness in the summer is much less than in the winter. For illustration purposes, the difference could be 360 mg/L in raw water in winter compared with 220 mg/Lin the summer.

- **Eliminate Pre-Chlorination on the Filters** – The reduction of pre-chlorination on the filters during the summer months can help reduce TTHM formation. This action has to be considered carefully with procedures documented and reviewed for engineering principles. As such, it will take time for the design engineer to determine what could be done to assure the proper chlorine contact time and document that other safety protocols in water are met. This requires state approval. Any submission should be considered along with a possible change in filter media. If Granulated Activated Carbon (GAC) is installed then the pre-chlorination would be stopped or drastically reduced because of the chlorine impact on the GAC filter media. Veolia's initial investigation into changes in chlorine feed point indicate that the recommended action can be accomplished while maintaining the required regulatory contact time for disinfection.
- **Change Filters to Granulated Activated Carbon (GAC)** – The object of the other changes being made is to reduce the TOC before chlorine is added into the process. The plant by design is limited on the amount of TOC removal possible. A maximum removal of only 60% is likely if the plant is properly optimized. The change of filter media to GAC would provide the best reduction possible and provide better than 90% removal dramatically reducing the potential for TTHM formation and thus ensuring compliance with that parameter for the water system. The change in filter media; however, is complicated requiring approval by the state, design of the changes, procurement of the media and a contractor to install it. That will take time and is likely in a range of $1.5 million (more or less) in cost. The use of GAC also requires more testing and monitoring of the media and the TOC than with the current media. GAC will accumulate TOC and begin to become in effective after a period of time. Depending upon the level of TOC reaching the filters this could be as short as 3 months and as long as 9 months. The amount of TOC is dependent upon the river water quality and operation of the other plant processes. Once the ability of the filters to remove TOC is diminished, the GAC media has to be replaced if river water continues as a source. The change to lake water will not require TOC removal and the media could continue to be used as filter media for that new water source.
- **Corrosion Control** – The primary focus of this study was to assure compliance with the TTHM limits. That is not the only problem facing the city and its customers though. Many people are frustrated and naturally concerned by the discoloration of the water with what primarily appears to be iron from the old unlined cast iron pipes. The water system could add a polyphosphate to the water as a way to minimize the amount of discolored water. Polyphosphate addition will not make discolored water issues go away. The system has been experiencing a tremendous number of water line breaks the last two winters. Just last week there were more than 14 in one day. Any break, work on broken valves or hydrant flushing will change the flow of water and potentially cause temporary discoloration.
- **Eliminate a Storage Tank** - The water system has more storage than it requires, due to excess capacity in the water lines in combination with the storage tanks. The City has already employed LAN to update the hydraulic model. The hydraulic model should be used to help determine if water levels can be lowered further and even to remove some storage tanks from service. That decision may need to be made

seasonally. For example demand during water main breaks last week required extensive amounts of water. The excess storage is more a problem with TTHM formation for the system in summer than winter.

- **Prioritize Valve Replacement** - The hydraulic model shows long water age in portions of the system that appear to be contributing to the TTHM problems. LAN has updated the model to include the location of broken valves and that added information is being used to identify other system problems. The City has a contract for valve turning and repair work that should be focused on known broken valves, particularly in sections of the distribution system with old water age. This activity however must wait until warmer weather in fear of causing problems in the water system with lines freezing.
- **Target and Increase Flushing** – Flushing the fire hydrants can be useful in cleaning out lines to minimize discolored water complaints and also helping reduce the age of water. This DOES NOT mean just opening hydrants. The hydraulic model needs to be used to determine which hydrants should be opened and for how long to ensure the lines are properly cleaned. For example, this might require 15 minutes or even several hours of flushing depending on location. The flushing of hydrants also needs to include records of hydrant condition, color of water initially and after periodic increments plus chlorine residual testing. All of that information will help provide information to the engineers on the effectiveness of the procedure. Each crew doing the work should be trained to help explain the process to the public and also warn neighborhoods about flushing so that staining of laundry can be avoided.
- **Change to Lake Water** – The changes being made now to the water plant will not be the same changes required to treat lake water once it becomes available. A thorough analysis and plan needs to be made in preparation of that switch. This is going to need to include changes in how the plant is operated, like eliminating lime softening and reducing the dosages of many chemicals. Consideration will also have to be given to algae treatment when lake water is being used.
- **Operating Programs** – All of the changes discussed above are based on testing and techniques proposed by engineers and skilled operators of both LAN and Veolia. The staff will need further training and implementation of detailed protocols to successfully implement the changes and to ensure long-term success at the plant. This means the City needs to implement a series of programs to ensure success in these changes.
    - **Process Control Management Plan** (PCMP) – The amount of testing and resulting changes in chemical dosages, along with monitoring the impact on the water, will require a well-documented process that all operators follow. An example of this is jar testing, which is used by the operators to identify the most effective chemicals and dosages to optimize treatment. The staff understands the basic treatment process but needs further practice and training to become proficient in the use of routine process control to adjust for water quality. This is commonly referred to as a PCMP and is used as a standard operating procedure so that the operators on the day shift can communicate with the night shift, that operators are following the same treatment plan for water, that the adjustments are unified between different shifts and different people, that a desired water treatment quality is defined and variations from it signal alarms and that the staff knows what to do when the water quality setpoints begin to drift away from its desired quality levels.
    - **Lab QA/QC** – The operation of the water plant is dependent upon accurate lab results. Standard operating procedure needs to be set and lab technicians trained in that process. EPA and the State

set procedures and standards to be met and the staff should strive to meet those standards. The City has already purchased a TTHM analyzer but should also consider a TOC analyzer that can be an online continuous device to provide immediate information on influent and effluent levels of TOC. Part of the lab records should be historical review of data to help operators better understand the changes they make in the plant.

- **Maintenance Management** – The key to water equipment is having all the equipment effectively maintained and functioning properly. The current capital program is fixing many broken pieces of equipment and updating the plant to current standards. This however must be followed with a rigorous maintenance program that ensures the proper preventive maintenance, is able to predict when maintenance is needed to keep equipment functioning properly and responsive to changes in flows and source water quality.
- **Training** – The changes being suggested are new to the staff and as such training needs to be provided in what the changes involve, why they are being made, the impact on the water quality, and how best to run the plant. A good demonstration of skill level is for the staff to become certified by the State as a licensed water plant operator. Many utilities now require all operators to hold at least the minimum certification level as a starting point and offer incentives to increase their certification level.

- **Communication Program** – The city should lay out an immediate, written strategy for communicating with the public in the short-term, as well as a 6-to-12 month strategy that contemplates known, future events like the KWA pipeline and switch to lake water. A wide range of activities are underway to work with the public but a comprehensive and coordinated effort, with a strategic focus, will help the utility and its customers.
  - **Dedicated Communications Personnel** – The City has a single, dedicated public information officer, tasked with providing service to all of city government. The current focus on communications support for Public Works, and the anticipated needs over the next several years, indicate the city would benefit from the hiring of a staff person in Public Works who could establish a communications program designed to provide clear and concise information to a broad audience though a number of different channels. In the interim, the city could hire a communications intern, local communications firm, or somebody with experience who is able to provide reduced or no-cost services for the immediate future.
  - **Communications Planning – Public Notification** – The City should be congratulated on its efforts to keep the public informed. It is posting its monthly reports on the web page to provide transparency, though these reports are highly technical – and may be too technical for the customer base at large. They are valuable to those customers who do want this level of detail. The city should create a single-page dashboard of information that outlines the water utility's performance for the previous month, post the dashboard on the website, print copies for distribution at customer service or other reception areas, and be provided during speaking engagements or other events. This dashboard should be easy to understand, and include:
    - The number of water quality tests conducted the previous month
    - The number of violations reported

  - Whether these results are in or out of compliance
  - Information about other proactive measures such as main and hydrant replacements, or other programs to improve performance of the water utility
  - Benchmarking information so the reader has a greater understanding of how Flint compares with other similar utilities in the region and across the country

- **Public Meetings** –There should be additional, proactive coordination with neighborhood, community and civic groups to provide speakers on timely topics. Given the list of numerous responsibilities, the Public Works director cannot do it alone – the city should identify three or four other staff members, knowledgeable about the water utility who can also speak to various groups, provide information and answer questions. The development of an outreach strategy to target key neighborhood, community and civic groups also will advance the communications effort and the dissemination of information in both the short and long term.
- **Standard tools** – Work crews in the field are often the faces of the utility – the city should create standardized tools for communicating with the public that can be easily and quickly delivered to the community in the event of main breaks, flushing or pre-planned capital improvements. Tools should include:
  - Door hangers for individual distribution
  - Yard signs with simple messaging to be placed near work-sites
  - A simple tri-fold brochure with useful information about the utility and appropriate contact information
  - Specific flyers about a range of topics
  - Infographics about how the water system works, from the intake to the customer's site
- **Change in Billing Format** – The City currently has no real way to reach all customers on a regular basis and provide information. The city should consider changing from a billing postcard to using an envelope and bill stuffer. Monthly or bi-monthly bill inserts are typically used to provide educational material for customers and are standard ways to provide information. Understandably, budget considerations must be taken into account.
- **Use Public Affairs Programming and Opportunities** – The news media has been covering this topic quite extensively – there are other media-related opportunities that may reach a wider audience. Taking advantage of these opportunities will help the city relay information to its customers and the community.
  - Participate in regular editorial-board meetings to provide background information and updates on key milestones or events.
  - Identify a local weekly television program and offer to provide guests to speak about key milestones or upcoming events.

Conclusions and Next Steps

The focus of this report is to help assure TTHM compliance and then improve general water quality. The City had good results in its most recent TTHM tests, although that is to be expected with the changes made to date and the cooler weather which contributes to low TTHM formation. Warm weather will be a different situation both in the nature of the Flint River water quality and in the formation of TTHM. With those changes coming, the City needs to act quickly to make improvements before additional testing takes place this spring and summer. The summary below provides the recommended actions, a priority for their implementation and projected costs either operational or capital. The costs are rough orders of magnitude and will vary with changes in water quality, operational decisions, and engineering choices being made and in some cases require State approval. Although a priority is assigned many of these actions can take place simultaneously.

Priority	Action	Annual Operational Cost	One Time Capital Cost
1	Implement operating programs for process control, lab QA/QC, maintenance, and training. These programs are needed regardless of the TTHM issue and will help with transition to lake water. The City has decided upon a central maintenance software and the water system should be the first to utilize this program since costs are already budgeted. These programs should be initiated immediately.	$ 25,000	$ 250,000 - $ 350,000
2	Contract with your engineer and initiate discussions with the State on the reduction of chlorine prior to the filters and changing the filter media to GAC. This activity has the longest time frame for design and approval, but also is extremely critical to assuring reduced TTHM production. The current filter cleaning and maintenance project needs to be adjusted to take into consideration the change in filter media both to dispose of the anthracite instead of cleaning and to install the GAC. This entire project needs to be done by early July to assure a flow of water throughout the system. Several months are required for the engineering design, State approval, bidding of work and installation of GAC and as such needs to begin now.	$ 0	$1,500,000
	Contract with your engineer and initiate discussions with the State on the addition of 0.5 to 1.2 mg/L of either potassium permanganate (dry) or sodium permanganate (liquid). This will take time to get approved and to implement. The use of liquid tanks at the raw water pump station may be the quickest and least expensive alternative for a temporary measure.	$ 160,000 - $ 320,000	$ 50,000

	Contract with your engineer and initiate discussions with the State on the addition of a corrosion control chemical. This action can be submitted and discussed with the state at the same time as the other chemical and filter changes saving time and effort. A target dosage of 0.5 mg/L phosphate is suggested for improved corrosion control.	$ 50,000	$ 50,000
3	Increase the ferric chloride dosage to 100 mg/L depending on river water TOC levels. (Lower TOC levels can be treated with less ferric chloride.) This change can be made now and is allowed by the State.	$ 1,000,000	$ 0
	Reduce the ozone feed rate to 5 mg/. This change can be done now and does not require State approval.	($50,000 – $100,000	$ 0
	Reduce the lime dosage to minimize hardness levels after softening. This will eliminate magnesium removal during treatment, but will also reduce total hardness. A reduction in carbon dioxide dosing for recarbonation treatment also is expected due to the reduction in lime feed. This change can be made now and does not require State approval.	($270,000)	$ 0
4	Confirm with the engineer when the revised hydraulic model will be completed and if necessary for time to focus on areas of longest water age if that would speed up the effort. Identify impact of reducing tank levels or eliminating a tank seasonally to improve water age. Include with this effort a list of hydrants to flush along with time required to assure drawing fresh water through the system. The engineer has been assigned this task already and confirmation of the timing of a delivery is needed.	$ 0	Already Contracted
	Ask the engineer to identify closed valves on a map that are impacting water age and that can be bid for replacement as soon as weather permits. Have the engineer identify areas of the system where the valve contractor should be focused on finding and fixing closed valves.	$ 0	Already Budgeted
5	Implement the recommendations in the communications program including a person assigned to public works education, using envelopes instead of cards along with bill stuffers for education and provide training for staff. Envelopes and bill stuffers are expensive and might be done periodically and not every month. The cost of TTHM notices, Annual Water Quality Reports and City notices should be figured into if any additional costs would exist. Many of these changes are underway now by the City.	Position Being Budgeted	

Notes

- The costs provided are rough order of magnitude which final engineering will firm up but will fluctuate with final decisions on engineering, operating technique and water quality.
- The change from river to lake water will dramatically cut the chemical costs as less is needed once the change occurs. This means that potassium permanganate will likely not be needed, ferric will drop as much as it went up, ozone levels will be lower and little lime will be needed.

Results Expected

The real question is what changes can be expected from these results in lowering the TTHM, improving the aesthetics and preparing for the change to lake water.

- **TTHM** – The City has already made great strides in reducing the TTHM levels with the changes already made. The additional suggestions by Veolia will further reduce TTHM in the water and help get the city released from the notices being provided to customers.
- **Hardness** – The hardness entering the plant this winter is 360 mg/L with the current system reducing it to 210 mg/L and optimization will reduce to about 180 mg/L. During the summer the levels will be lower probably in the 140 mg/L to 150 mg/L range. The target set by the current best operating practices is 120 mg/L to 150 mg/L.
- **Discolored Water** – The discolored water is caused by the old unlined cast iron pipe. The water from the plant can have an impact on discolored water, but a greater concern is the breaks and construction work that disrupt the flow of water causing discoloration. A polyphosphate is suggested to help bind the old cast iron pipe reducing instances of discolored water. This along with improve flow of water and programmed hydrant flushing will help, BUT WILL NOT eliminate discolored water occurrences.
- **Change to Lake Water –** The recommendations include the suggestion of programs to help the staff better manage the treatment process, additional testing to adjust the plant and additional lab monitoring, a maintenance program focused on keeping equipment properly functioning and more training for staff to improve their skill level. Those actions will prepare the staff for the change of water sources when it comes next year in addition to developing a thorough plan for the switch.

Resourcing the world

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City of Flint
Water Improvements

DATE	IMPROVEMENT	EFFECT	COST
Nov.	Increased flushing efforts (as weather permits)	Reduced time of water in the system	N/A
Nov.	Adjusted operational softening to no less than 80%	Reduce chlorine demand	N/A
Dec.	Started hydraulic modeling of distribution system	Helps to identify locations of bad valves	$80,000
Dec.	Started evaluation of different polymers	Removal of organic carbon	N/A
Dec.	Started SCADA upgrades inside of Water Plant	Improvement of internal software controls	$424,000 Budgeted
Jan.	Hired vendor to upgrade efficiency of the ozone system	Better oxidation and disinfecting	$7,200
Jan.	Started jar testing	Assists in dosage amounts and polymer aids	N/A
Feb.	Hired consultant Veolia for process review	Professional recommendations	$40,000
Feb.	Leasing a TTHM analyzer	Increased internal testing ability	$8,000
Feb.	Adjustments to reservoir level to match demand	Reduce time of water in system	N/A
Mar.	Implement process controls	Professionalism / efficiency	~$300,000
Mar.	Utilize Granulated Activated Carbon Filtering	Large reduction in TOC	$1,500,000
Mar.	Increase ferric chloride / reduce ozone feed rate / reduce lime dosage	Reduction in hardness	~$600,000
Mar.	Build hydraulic model	Assists in identifying locations of bad valves	Budgeted
Mar.	Communication program	Community awareness	~$80,000

From: Gerald Ambrose <gambrose@cityofflint.com>
Sent: Tuesday, March 24, 2015 12:43 PM
To: Hollins, Harvey (GOV)
Cc: Workman, Wayne (TREASURY); Byrne, Randall (Treasury); Koryzno, Edward (Treasury)
Subject: Water - fixed charges
Attachments: Fixed charge calculation1.docx; EM Statement on Water 3.24.2015.pdf

Harvey,

You had requested additional information on the fixed charges used in Flint's water rates. Hopefully the attached helps. I have also included some additional information showing that that many of the recent increases in rates were done prior to the EM being appointed. And also, a reminder that the system was in a deficit position when the EM came on board, making additional increases necessary.

While the system is now solvent, it is not as strong as it once was. And the real challenge for all of is to figure out how to get rates down to an affordable level. But is cannot be done by simply reducing rates!

I am sure you are aware that the Council voted last night to "do everything in their power" to return to the Detroit system. I am attaching my statement in response.

Call if you have questions.

Jerry

RESIDENTIAL WATER/SEWER RATES - FIXED AND COMMODITY CHARGES

General statistics indicate that the average person uses between 80 and 100 gallons of water per day, or between 2,400 and 3,000 gallons per day. The City's general estimate for the average residential bill is based on consumption of approximately 5,200 gallons per day (7 units * 745 gallons. So the average we use is not out of line if the average number of users in a residence is around 2.

At $149 average costs per month, Flint's charges are very high in comparison to other systems, and an issues which must be addressed. Unfortunately, the Flint system, which has the capacity to serve a population of more than 200,000, now serves a population of approximately 100,000. The system, as currently configured today, needs between $65 million and $70 million in revenues annually to operate. One cannot simply reduce rates without affecting the ability of the system to operate.

Like many systems, Flint charges both a fixed charge and a commodity charge to generate revenues. The concept of the fixed charge is that there is a certain amount of the utility system which must operate regardless of how much of the commodity is used. Operation and maintenance of the system, including building, treatment, and distribution infrastructure, as well as debt service, are examples.

On the other hand, chemicals, utilities, and staffing to a certain extent vary with the amount of the commodity and can thus be linked to usage.

In Flint, the total fixed charge for the water and sewer bill accounts for approximately 40% of the average residential users bill. The amounts determined to be "fixed charges" were established many years ago, and the water rate study done for the City in 2014 made no recommendations for change.

The Flint system, which more than 10 years ago was very stable financially, had declined into a deficit financial position by June 30, 2012. Significant rate increases, many of which were enacted before the State assigned an Emergency Manager in late 2011, were necessary to stabilize the financial position of the system. Other decisions, including the decision to partner with Genesee County in the KWA, and the decision to utilize the Flint River for an interim period, were made with the goal of stabilizing rates and moderating future increases. Safety, quality, and affordability are the key priorities going forward.

Following is the detail of the water and sewer rate components.

WATER/SEWER RATES

Average Residential User

WATER COMMODITY CHARGE PER UNIT	Water Service Charge* 5/8" remote	SEWER COMMODITY CHARGE PER UNIT	Sewer Service Charge	Units for Ave. Bill	WATER COMMODITY	Service Charge* 5/8" remote	SEWER COMMODITY	Sewer Service Charge	Total
$ 7.92	$ 22.90	$ 5.17	$ 34.48	7.00	$55.44	$22.90	$36.19	$34.48	**$149.01**

AVERAGE	Water Charges			Sewer Charges			Water and Sewer		
RESIDENTIAL									
UTILITY	29%	$22.90	Fixed Charge	$34.48	49%		$57.38	39%	Fixed Charge
CHARGE	71%	$55.44	Commodity	$36.19	51%		$91.63	61%	Commodity
	100%	$78.34		$70.67	100%		$149.01	100%	

RECENT RATE INCREASES

Overall cost to residential users for water and sewer have increased significantly since 2003 – almost three-fold. Note, however, that much of the recent increases were made prior to the appointment of an EM…

Increases Enacted by EM		Increases Enacted Prior to EM		
EM		PRE-EM		
Aug 2014	July 2012	July 2011	Jan 2011	Oct 2003
$78.34	$74.42	$66.12	$48.99	$29.60
$70.67	$65.60	$45.24	$33.50	$27.47
$149.01	$140.02	$111.36	$82.49	$57.07
$8.99	$28.66	$28.87	$25.42	
6%	26%	35%	45%	

Change in the Financial Position of the Water and Sewer System

The financial position of the water and sewer system in 2003 was strong. However, by 2011 the financial position had declined to the point where the system was in deficit. In spite of increases made prior to the appointment of an Emergency Manager, the utility system was still in a deficit position in 2012. While the financial position of the system is now positive, it is still less strong than in 2003:

Water and Sewer (Assets in Millions)

	2003	2011	2012	2013	2014
		Status Pre EM		Status under EM	
Capital Assets	$82,288	$65,877	$84,182	$78,066,635	$76,670
Restricted	$0	$0	$5,585	$4,385	$5,847
Unrestricted	$53,076	($423)	($8,459)	$8,817	$13,552

Gerald Ambrose
Emergency Manager

Dayne Walling
Mayor

Jason Lorenz
Public Information Officer
(810) 237-2039
jlorenz@cityofflint.com

For Immediate Release

Emergency Manager Statement on Water: Spending Extra $12 Million on Detroit Water "Incomprehensible" When Flint Water Just as Safe

Flint, Michigan – March 24, 2015 – At the City Council meeting held on Monday, March 23, 2015, Flint City Council made a motion to "do all things necessary" to return to using water purchased from Detroit and discontinue use of the Flint River as a water source. The following statement from Emergency Manager Gerald Ambrose addresses that point:

"Flint water today is safe by all EPA and MDEQ standards and the City is working daily to improve its quality. Users also pay some of the highest rates in the state because of the decreased numbers of users and the age of the system.

"It is incomprehensible to me that 7 members of the Flint City Council would want to send more than $12 million a year to the system serving southeast Michigan, even if Flint rate payers could afford it. Water from Detroit is no safer than water from Flint.

"If $12 million annually were available for discretionary use, it would be far better spent reducing rates paid by Flint customers and/or modernizing the City's system."

-Gerald Ambrose,
Flint Emergency Manager

–END–

From: Gerald Ambrose <gambrose@cityofflint.com>
Sent: Tuesday, March 24, 2015 1:12 PM
To: Hollins, Harvey (GOV)
Cc: Workman, Wayne (TREASURY); Byrne, Randall (Treasury); Koryzno, Edward (Treasury)
Subject: Corrected memo - fixed charge memo
Attachments: Fixed charge calculation1.docx

Sorry, some parts should have said "per month", not "per day."

RESIDENTIAL WATER/SEWER RATES - FIXED AND COMMODITY CHARGES

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Like many systems, Flint charges both a fixed charge and a commodity charge to generate revenues. The concept of the fixed charge is that there is a certain amount of the utility system which must operate regardless of how much of the commodity is used. Operation and maintenance of the system, including building, treatment, and distribution infrastructure, as well as debt service, are examples.

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From: Gerald Ambrose <gambrose@cityofflint.com>
Sent: Thursday, March 26, 2015 3:01 PM
To: Workman, Wayne (TREASURY); Hollins, Harvey (GOV); Byrne, Randall (Treasury); Koryzno, Edward (Treasury); Widigan, Robert (TREASURY); Cline, Richard (Treasury)
Subject: Notice to Flint water customers
Attachments: Flint Letter Color Header to Water Customers Final (1).pdf; MDEQ Required notice.pdf

FYI..

Here is an advance copy of the communications to be mailed to Flint customers at the end of this week. April 1 is the deadline.

Will not hit mailboxes until Friday at the earliest. We will have a media event on Friday announcing the communication.

J

Water Quality Update

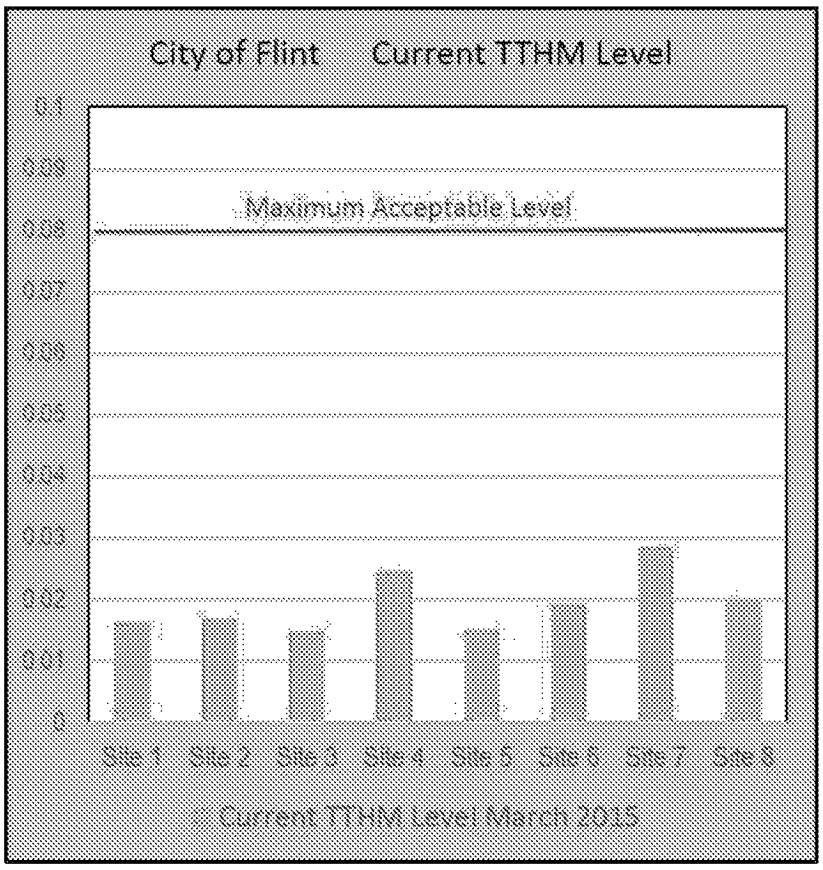
City of Flint Resident:

We are pleased to report that City of Flint water is safe and meets U.S. Environmental Protection Agency guidelines. While we continue to work on improving aesthetic qualities, such as discoloration or odor, you can be confident that the water provided to you today meets all safety standards. Maintaining safety and quality in our water is a top priority of the City.

We accomplished this by:

- Upgrading the ozone treatment process at the Water Treatment Plant
- Increasing water main/hydrant flushing to reduce stagnation
- Conducting additional testing of treatment to identify areas of improvement
- Improving water circulation by repairing valves and adjusting reservoir levels

Our most recent testing in February showed that every testing site was well below allowable levels, as shown below:

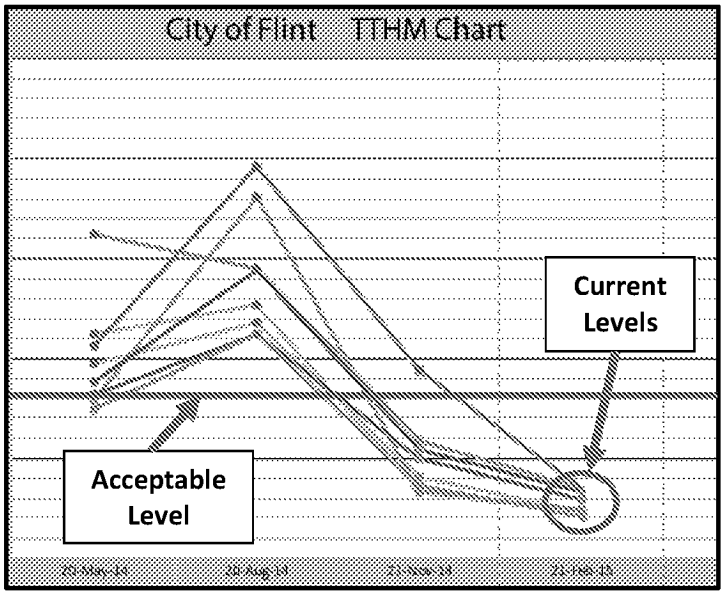


Water Quality Update

The Michigan Department of Environmental Quality (MDEQ) has acknowledged our progress:

"We are encouraged by the results from the most recent round of compliance samples collected on February 17, 2015, which now show individual TTHM levels at less than half of the 0.080 mg/L standard at all locations throughout the City's system. Operational Evaluation Reports from December 2014, and February 2015, have identified possible causes and corrective measures for the previous elevated TTHM levels, which we encourage the City to continue implementing." -MDEQ

Notification is based on four quarters of test results. Because of last year's test results, the City's *annual* quarterly testing average is not yet below the state's allowable average and the City is required to issue the attached notice ***("Important Information about Your Drinking Water")***.



If you have any questions about this report or would like a test done at your home, free of charge, please call us at 810-787-6537.

Maintaining safe water and improving its quality is a top priority for all of us at the City of Flint, and we apologize for the concerns these notices have raised. We have taken many steps to improve the safety and quality of our water supply and will be taking more. As you may know, we have recently received a series of recommendations from several sources, including a report from international urban water system consultant, Veolia North America. We will be taking further action steps to assure that water remains safe and that water quality is improved, and we will be working with our recently created Citizen Advisory Committee and our Technical Advisory Committee as we progress. Please track our progress on our website **cityofflint.com**.

City of Flint

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

City of Flint Did Not Meet Treatment Requirements

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we are doing to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Samples were collected for total trihalomethanes (TTHM) analysis from eight locations on a quarterly basis (May 21, August 21, November 20 of 2014, and February 17, 2015). The average of the results at ANY of the eight locations must not exceed the maximum contaminant level (MCL) for TTHMs, otherwise our water system exceeds the MCL. The standard for TTHMs is 80 micro grams per liter (µg/L). The location reporting the highest TTHM level was 105 ug/L; thus, our water system exceeds the TTHM MCL.

What should I do?

- There is nothing you need to do unless you have a severely compromised immune system, have an infant, or are elderly. These people may be at increased risk and should seek advice about drinking water from their health care providers.
- You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.

What does this mean?

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours.

People who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer.

What is being done?

We are currently working on solutions to correct the problem. We anticipate resolving the problem in 2015. Our most recent individual sample results were all less than half the 80 µg/L standard, however since compliance is calculated using a locational running annual average (LRAA) of the most recent four quarters, we are still out of compliance with the MCL at two of eight locations.

For more information, please contact Mr. Brent Wright at 517-787-6537, or the Flint Water Plant at 4500 North Dort Highway, Flint, Michigan 48505.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by the City of Flint.

CERTIFICATION: F2 S3 WSSN: 02310

I certify that this water supply has fully complied with the public notification requirements in the Michigan Safe Drinking Water Act, 1976 PA 399, as amended, and the administrative rules.

Signature	Plant Supervisor	March 25, 2015
	Title	Date Distributed

Reminder to water supplier: This notice/certification must be sent to the Department of Environmental Quality.

From: Dempkowski, Angela (Treasury)
Sent: Tuesday, April 28, 2015 11:45 AM
To: Hollins, Harvey (GOV)
Cc: Clayton, Stacie (GOV)
Subject: DWSD
Attachments: KWA SUMMARY FOR GOVERNOR.Version I.04-18-13.doc; #1.pdf; #2.pdf

Sent on behalf of Wayne Workman.

Angela Dempkowski | Senior Executive Management Assistant/Treasury
State of Michigan | 430 W. Allegan Street, 1st Floor | Lansing, MI 48922
(517) 373-4415 | (517) 373-0633 (fax)
dempkowskia@michigan.gov

Think Green! Don't print this e-mail unless you need to.

CONFIDENTIALITY NOTICE: This e-mail, and any attachments, is for the sole use of the intended recipient(s) and may contain information that is confidential and protected from disclosure under the law. Any unauthorized review, use, disclosure, or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail, and delete/destroy all copies of the original message and attachments.
Thank you

STATE OF MICHIGAN
DEPARTMENT OF TREASURY
LANSING

RICK SNYDER
GOVERNOR

ANDY DILLON
STATE TREASURER

SUMMARY REPORT

TO: Brom Stibitz, Senior Policy Advisor; Department of Treasury

FROM: Eric Cline. Unit Operations Specialist

SUBJECT: Flint Water System Summary

DATE: April 18, 2013

Summary

In November 2012 the Department of Treasury commissioned the firm of Tucker, Young, Jackson & Tull, Inc. (TYJT) to analyze options for the City of Flint to either remain a customer of the Detroit Water & Sewer Department (DWSD) or to join the Karegnondi Water Authority (KWA) in Genesee County. The purpose of this study was to provide objective analyses to the State Treasurer and Flint's Emergency Financial Manager (EFM) in order to secure future potable drinking water for the City.

In December 2012, staff from TYJT met with representatives from the Department of Treasury and the City of Flint to provide a preliminary report on their findings. At this meeting, five options were presented: These options ranged from the Flint Water Plant providing 100% water, to 100% provision of untreated Lake Huron Water by KWA, to 100% provision of treated drinking water by DWSD, or provision of variable amounts of water from DWSD using a combination of blended DWSD water and Flint River water.

From the presentation of the preliminary report in December 2012 to the submission of the final report by TYJT in January 2013, a number of developments made arriving at a final decision very difficult.

- DWSD provided the City of Flint with at least two modified proposals to consider.
- A debate ensued between TYJT and KWA's principal engineering firm regarding the others' conclusions and estimates for construction of the KWA pipeline.
- The Flint EFM eliminated all options except the 100% DWSD option or joining KWA.

In January 2013, the OFR provided a comprehensive report to the State Treasurer analyzing three questions: 1) The projected construction costs and why Treasury believed the projections provided by Flint/KWA were acceptable; 2) Identification of the construction contingencies; and 3) Identification of the options Flint will utilize in the event of a construction cost overrun or a delay in construction. At the end of this report, the OFR recommended to the State Treasurer that KWA presented the best future option for future potable water. The OFR also concluded that KWA appeared to be the cheaper option; the quality of water would improve; Genesee County appeared willing to assist the City in securing the financing for their portion of the project; the KWA project could signify the beginning of better collaboration between the City of Flint and Genesee County; and the KWA project had both political and popular support.

Between January and April, intense scrutiny of the various proposals was undertaken by Treasury and Flint officials. Treasury officials met with officials from Genesee County to gain a better understanding of the KWA project. In February 2013, Genesee County opened bids for construction of the Lake Huron intakes. This bid

opening represented the first meaningful step toward commencing construction of the KWA system. The bid was $3-million less than projected.

In March 2013, Treasury was notified that DWSD had contacted Flint to negotiate with the City to retain them as a customer. On April 12, 2013, the State Treasurer authorized the Flint EFM to join KWA, pending review of any final offer from DWSD. A final offer was received from DWSD on April 15, 2013.

DWSD's final offer provided two options. The first option was for a "supply only" rate schedule. Only water treatment costs would be recovered and DWDS would absorb all other delivery costs. Capital and operating revenue charges would be calculated based upon KWA's usage relative to the entire demand upon DWSD's Lake Huron WTP. KWA would also have the ability to construct and own its own transmission lines.

The second option was a "full service" rate option. DWSD would provide all production and transmission services. Transmission rates would be calculated only on those costs necessary to supply KWA and no additional transmission rates would be charged. Capital and operating revenue charges would be calculated based upon KWA's usage relative to the entire demand upon the Lake Huron WTP.

Independent analyses of DWSD's final offer by the OFR, the Flint EFM, and the Department of Environmental Quality (DEQ) generally reached the same conclusions:

- DWSD's offer was a framework subject to negotiations and was not a firm offer.
- The offer provided by DWSD was incomplete.
- DWSD's offer did not include a guaranteed rate beyond year one, nor did it limit maximum annual rate increases.
- The DWSD scenarios were based on 40 MGD of service capacity. However, the KWA project provides 60 MGD of initial capacity with potential expansion to 75 MGD.
- DWSD indicates that Flint/ Genesee County would be given "broadened representation," it is unclear exactly what this means in terms of actual control in the decision making processes.
- The DWSD offer relies on a single transmission system and would require the City of Flint to maintain its WTP for emergency purposes. In addition, it would leave Genesee County without an adequate backup supply to meet their needs.
- DWSD's offer included an attachment that listed the rank-ordered options (from cheapest to most expensive). DWSD Scenario 2 is listed as the least expensive option (but it is unclear how the total cost of this option was arrived at). DWSD Scenario 1 was not listed.
- DWSD provided a summary table of their unit costs but how these figures are arrived at was not clear, so analysis proved difficult.

Without specific details from DWSD on this proposal, a true comparative analysis is difficult to provide. As such the Flint EFM rejected the DWSD proposal and agreed to join KWA.

If further information on this issue is needed, please let me know.

Copy: Roger Fraser, Deputy State Treasurer; Bureau of Local Government Services
Edward Koryzno, Administrator; Office of Fiscal Responsibility
Randall Byrne, State Administrative Manager; Office of Fiscal Responsibility

<< AUTO PATH >>

4/29/2015 ELB Notes

Prepared for Wayne Workman
Prepared by Drew Van de Grift

Accomplishments:

Not Responsive

Continuing Challenges:

Not Responsive

- The transition to KWA and maintenance of the aging water distribution infrastructure are important challenges which require significant funding and continued leadership.

Not Responsive

Post Emergency Manager Flint

Not Responsive

From: Clayton, Stacie (GOV)
Sent: Wednesday, April 29, 2015 12:26 PM
To: Bedan, Morgan (GOV)
Cc: Hollins, Harvey (GOV)
Subject: Flint Briefing
Attachments: Flint Emergency Management and Water Briefing .docx

Hi Morgan,

Please let us know if you need anything else.

Stacie

To: Governor Snyder

From: Harvey Hollins

Date: 29 April 2015

Subject: Briefing on the City of Flint

I. Flint Emergency Management

Before 2011

Not Responsive

EM Administrations and governing public acts:

Not Responsive

Emergency Management after 2011

Achieved Benchmarks:

Not Responsive

Not Responsive

Remaining Challenges:

Not Responsive

- The transition to KWA and maintenance of the aging water distribution infrastructure are important challenges which require significant funding and continued leadership.

Not Responsive

II. Flint Water

In November 2012 the Department of Treasury commissioned the firm of Tucker, Young, Jackson & Tull, Inc. (TYJT) to analyze options for the City of Flint to either remain a customer of the Detroit Water & Sewer Department (DWSD) or to join the Karegnondi Water Authority (KWA) in Genesee County. The purpose of this study was to provide objective analyses to the State Treasurer and Flint's Emergency Financial Manager (EFM) in order to secure future potable drinking water for the City.

In December 2012, staff from TYJT met with representatives from the Department of Treasury and the City of Flint to provide a preliminary report on their findings. At this meeting, options presented were: 1) Flint Water Plant will provide 100% water, 2) 100% provision of untreated Lake Huron Water by KWA, 3) 100% provision of treated drinking water by DWSD, or 4) provision of variable amounts of water from DWSD using a combination of blended DWSD water and Flint River water.

The Flint EFM eliminated all options except the 100% DWSD option or joining KWA, deciding later to join KWA.

On April 25, Flint officially ended nearly 50-years of using DWSD to supply water.

The city currently uses the Flint River until the Karegnondi Water Authority pipeline is built, which will bring untreated Lake Huron water to Genesee County. KWA should be operational by winter 2016.

The Flint River water is harder than DWSD. A number of residents are experiencing discoloration and order with the water. In addition there have been a number of citations largely around heightened levels of Total Trihalomethanes (TTHM).

Given water quality concerns, suggestions have been made that the City of Flint should return to using water purchased through the Detroit Water and Sewerage Department (DWSD). For many reasons, financial and otherwise, the City of Flint can ill-afford to switch courses at this point. The estimated cost to go back to the water provided by the DWSD is approximately $1 million per month and the City expects to be using the Karegnondi Water Authority (KWA) Lake Huron water within or before the 1st quarter of 2016.

The City of Flint is proceeding with a series of actions to ensure the continued safety of Flint drinking water is maintained and that issues of discoloration and odor continue to be addressed. Most notably, the installation of a Granulated Active Charcoal filter (GAC) at the Water Treatment Plant is expected to be authorized this week by Emergency Manager Jerry Ambrose.

The introduction of the GAC to the treatment process at Flint's plant will absorb or reduce the chemical precursors which will block or eliminate the formation of TTHM during the filtration process. Engineering and design are underway and installation of the GAC is targeted for completion by mid-July. Cost of this improvement is projected at $1.5 million and will be paid for by the proceeds from the state approved restructuring of the City's Drinking Water Revolving Fund loans.

In addition to the installation of the GAC, the City of Flint is undertaking a number of other improvements to the water system in the coming months, including a water leak detection monitoring, completion of the hydraulic model and subsequent targeted hydrant flushing program, and the replacement of two miles of water main pipe in a critical area of the city. All of these improvements scheduled to occur within the next six months.

From: Murray, Mark <Mark.Murray@meijer.com>
Sent: Thursday, July 23, 2015 12:22 PM
To: Hollins, Harvey (GOV)
Subject: RE: Water Filter

If we can work this out, where would you want them delivered? Who would receive? State? City?

-----Original Message-----
From: Hollins, Harvey (GOV) [mailto:hollinsh@michigan.gov]
Sent: Thursday, July 23, 2015 12:20 PM
To: Murray, Mark
Subject: RE: Water Filter

Thank you.

-----Original Message-----
From: Murray, Mark [mailto:Mark.Murray@meijer.com]
Sent: Thursday, July 23, 2015 10:57 AM
To: Hollins, Harvey (GOV)
Cc: Steele, Cindee
Subject: RE: Water Filter

Will get back soon.

-----Original Message-----
From: Hollins, Harvey (GOV) [mailto:hollinsh@michigan.gov]
Sent: Wednesday, July 22, 2015 12:17 PM
To: Murray, Mark
Subject: Water Filter

Mark,
Per our last conversation, I expressed that we were interested acquiring and distributing 1500 water filters to Flint residents to assist with the quality (perceived or real) of their drinking water until the KWA pipeline comes online.

A few weeks ago, you asked me to send you the product ID number so you could check with your suppliers regarding price. I apologize for taking long to send you product ID; a number of conversations needed to occur in Flint before we could proceed.

The product ID for a Brita Filter for kitchen faucets is:
Product ID 3176421
UPC 7-23987-0078

Thank you for taking the time to look into this.

Best,
Harvey Hollins III, Director
Governor's Office of Urban Initiatives

313.456.4994<tel:313.456.4994> (office)
PPI (Cell)

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From: Murray, Mark <Mark.Murray@meijer.com>
Sent: Monday, July 27, 2015 7:44 AM
To: Hollins, Harvey (GOV)
Cc: Behler, Stacie
Subject: RE: Water Filter

Harvey -

We are all set. Stacie Behler can serve as liaison on this one. The merchant team can source 1,500 filters. We will get them to the community at cost. My guess is this will be $20k or so, but the team will give you a final number.

Because we don't want to be a state vendor, we won't sell them to you. Stacie will work out logistics of whether we make a donation of gift cards to the state that you use to purchase them, or whether there is some other entity to which we can give them.

Given all the circumstances, we are not interested in any publicity. We want it to be clear that the state is providing these, not Meijer.

Thanks for reaching out.

Mark

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From: Haan, Andrew (GOV)
Sent: Wednesday, July 29, 2015 1:07 PM
To: Hollins, Harvey (GOV); Clayton, Stacie (GOV); Armstrong, Anne (GOV)
Subject: Flint water article

I always enjoy reading my daily Citylab email. Today was a little different, as the article on Flint water below presents the situation there in a quite negative light.

Thought the team would be interested....

http://www.citylab.com/weather/2015/07/aging-infrastructure-is-poisoning-americas-water-supply/399878/?utm_source=nl__link5_072915

Andrew Haan
Associate Director
Governor's Office of Urban and Metropolitan Initiatives
Southwest Michigan First
241 E. Michigan Avenue
Kalamazoo, MI 49007
(269) 303-1967

From: Clayton, Stacie (GOV)
Sent: Wednesday, July 29, 2015 1:10 PM
To: Haan, Andrew (GOV); Hollins, Harvey (GOV); Armstrong, Anne (GOV)
Subject: RE: Flint water article

Thanks, Andrew. Harvey, Dennis and DEQ have been working on this since earlier this year. Harvey has been spending quite a bit of time in Flint these past few month – smile.

Stacie

From: Haan, Andrew (GOV)
Sent: Wednesday, July 29, 2015 1:07 PM
To: Hollins, Harvey (GOV); Clayton, Stacie (GOV); Armstrong, Anne (GOV)
Subject: Flint water article

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Andrew Haan
Associate Director
Governor's Office of Urban and Metropolitan Initiatives
Southwest Michigan First
241 E. Michigan Avenue
Kalamazoo, MI 49007
(269) 303-1967

From: Clayton, Stacie (GOV)
Sent: Wednesday, July 29, 2015 2:01 PM
To: Hollins, Harvey (GOV)
Subject: FW: Water Filter

Importance: High

Where do I tell them to ship? Is there someone in Flint I need to contact?

Stacie

From: Behler, Stacie [mailto:Stacie.Behler@meijer.com]
Sent: Wednesday, July 29, 2015 1:56 PM
To: Clayton, Stacie (GOV)
Cc: Akemann, Jamie; Rolland, Heather
Subject: Re: Water Filter

We are actually good to go and ready to ship vice copied Jamie, the VP over the area and my assistant.

Just let us know the "ship to" and we are on our way.

On Jul 29, 2015, at 1:47 PM, Clayton, Stacie (GOV) <claytons3@michigan.gov> wrote:

> Hi Stacie,
>
> I hope you are doing well and enjoying your summer. Please let me know a convenient time for a phone call with you so we can discuss the water filters.
>
> Thank you,
> Stacie
>
> ***Stacie Clayton, Assistant Director***
> Harvey Hollins III, Director
> Governor's Office of Urban Initiatives
> 3044 West Grand Boulevard, Ste. 14-650
> Detroit, MI 48202
> 313.456.4994 (office)
> claytons3@michigan.gov
>
> ---
>
> **From:** Hollins, Harvey (GOV)
> **Sent:** Wednesday, July 29, 2015 1:43 PM
> **To:** Clayton, Stacie (GOV)
> **Subject:** Fwd: Water Filter
>
> Best,

Harvey

Begin forwarded message:

From: "Hollins, Harvey (GOV)" <hollinsh@michigan.gov>
Date: July 27, 2015 at 8:42:42 AM EDT
To: "Murray, Mark" <Mark.Murray@meijer.com>
Cc: "Behler, Stacie" <Stacie.Behler@meijer.com>, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>, "Clement, Elizabeth (GOV)" <clemente@michigan.gov>
Subject: Re: Water Filter

Mark,
Thank you. We will work with Stacie to identify the appropriate entity to receive the filters for Flint residents. In addition, we'll keep you out the public eye on this.

Please know, however, how much we appreciate Meijer and most importantly you for doing this.

Best,
Harvey

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> Harvey -
>
> We are all set. Stacie Behler can serve as liaison on this one. The merchant team can source 1,500 filters. We will get them to the community at cost. My guess is this will be $20k or so, but the team will give you a final number.
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From: Clayton, Stacie (GOV)
Sent: Wednesday, July 29, 2015 5:24 PM
To: 'Behler, Stacie'
Cc: Akemann, Jamie; Rolland, Heather; Hollins, Harvey (GOV)
Subject: RE: Water Filter

Thank you, Stacie for the quick response. Harvey does have an additional question. Is the plan for the state to purchase the filters or is the Meijer Foundation donating them? The former is fine and the latter is great. If we purchase them we have to determine the process. If they are donated, I will identify the location in Flint where they will be shipped.

Stacie

From: Behler, Stacie [mailto:Stacie.Behler@meijer.com]
Sent: Wednesday, July 29, 2015 1:56 PM
To: Clayton, Stacie (GOV)
Cc: Akemann, Jamie; Rolland, Heather
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> Stacie
>
> ***Stacie Clayton, Assistant Director***
> Harvey Hollins III, Director
> Governor's Office of Urban Initiatives
> 3044 West Grand Boulevard, Ste. 14-650
> Detroit, MI 48202
> 313.456.4994 (office)
> claytons3@michigan.gov
>
> ---
>
> **From:** Hollins, Harvey (GOV)
> **Sent:** Wednesday, July 29, 2015 1:43 PM
> **To:** Clayton, Stacie (GOV)
> **Subject:** Fwd: Water Filter

Best,
Harvey

Begin forwarded message:

From: "Hollins, Harvey (GOV)" <hollinsh@michigan.gov>
Date: July 27, 2015 at 8:42:42 AM EDT
To: "Murray, Mark" <Mark.Murray@meijer.com>
Cc: "Behler, Stacie" <Stacie.Behler@meijer.com>, "Muchmore, Dennis (GOV)" <muchmored@michigan.gov>, "Clement, Elizabeth (GOV)" <clemente@michigan.gov>
Subject: Re: Water Filter

Mark,
Thank you. We will work with Stacie to identify the appropriate entity to receive the filters for Flint residents. In addition, we'll keep you out the public eye on this.

Please know, however, how much we appreciate Meijer and most importantly you for doing this.

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On Jul 27, 2015, at 7:44 AM, Murray, Mark <Mark.Murray@meijer.com> wrote:

Harvey -

We are all set. Stacie Behler can serve as liaison on this one. The merchant team can source 1,500 filters. We will get them to the community at cost. My guess is this will be $20k or so, but the team will give you a final number.

Because we don't want to be a state vendor, we won't sell them to you. Stacie will work out logistics of whether we make a donation of gift cards to the state that you use to purchase them, or whether there is some other entity to which we can give them.

Given all the circumstances, we are not interested in any publicity. We want it to be clear that the state is providing these, not Meijer.

Thanks for reaching out.

Mark

-----Original Message-----
From: Hollins, Harvey (GOV) [mailto:hollinsh@michigan.gov]
Sent: Thursday, July 23, 2015 12:20 PM
To: Murray, Mark
Subject: RE: Water Filter

Thank you.

-----Original Message-----
From: Murray, Mark [mailto:Mark.Murray@meijer.com]
Sent: Thursday, July 23, 2015 10:57 AM
To: Hollins, Harvey (GOV)
Cc: Steele, Cindee
Subject: RE: Water Filter

Will get back soon.

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The product ID for a Brita Filter for kitchen faucets is:

Product ID 3176421

UPC 7-23987-0078

Thank you for taking the time to look into this.

Best,

Harvey Hollins III, Director

Governor's Office of Urban Initiatives

313.456.4994<tel:313.456.4994> (office)

PPI (Cell)

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From: Behler, Stacie <Stacie.Behler@meijer.com>
Sent: Wednesday, July 29, 2015 5:28 PM
To: Clayton, Stacie (GOV)
Cc: Akemann, Jamie; Rolland, Heather; Hollins, Harvey (GOV)
Subject: Re: Water Filter

They are actually being donated.

On Jul 29, 2015, at 5:23 PM, Clayton, Stacie (GOV) <claytons3@michigan.gov> wrote:

> Thank you, Stacie for the quick response. Harvey does have an additional question. Is the plan for the state to purchase the filters or is the Meijer Foundation donating them? The former is fine and the latter is great. If we purchase them we have to determine the process. If they are donated, I will identify the location in Flint where they will be shipped.
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> **To:** Clayton, Stacie (GOV)
> **Cc:** Akemann, Jamie; Rolland, Heather
> **Subject:** Re: Water Filter
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> We are actually good to go and ready to ship vice copied Jamie, the VP over the area and my assistant.
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> Just let us know the "ship to" and we are on our way.
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> > Hi Stacie,
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From: Clayton, Stacie (GOV)
Sent: Wednesday, July 29, 2015 5:32 PM
To: 'Behler, Stacie'
Cc: Akemann, Jamie; Rolland, Heather; Hollins, Harvey (GOV)
Subject: RE: Water Filter

Excellent! I will have the shipping address for you tomorrow. Have a great evening.

Stacie

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UPC 7-23987-0078

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Governor's Office of Urban Initiatives

313.456.4994<tel:313.456.4994> (office)

PPI (Cell)

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From: Akemann, Jamie <Jamie.Akemann@meijer.com>
Sent: Friday, July 31, 2015 7:40 AM
To: Bob Richardson Jr
Cc: Mears, Scott; Mary.Anne Hogan Johnson; Alyssa Wisenor; Stephen Hardy; Rolland, Heather; Hollins, Harvey (GOV); Behler, Stacie; Clayton, Stacie (GOV)
Subject: RE: Meijer

Good morning,

Below is the address for delivery of the water filters. Please copy Stacie Clayton when they are shipped with a tracking number. She will ensure someone is at the church the day of delivery.

Thanks for the support!

Deliver to:

Pastor Allen Overton
Mt. Carmel Baptist Church
1610 West Pierson Road
Flint, MI 48504
810.397.0219

Please let me know if you need anything else from me.

Stacie
313.456.4994 (office)
claytons3@michigan.gov

From: Bob Richardson Jr [mailto:bob.richardson@clorox.com]
Sent: Tuesday, July 28, 2015 4:17 PM
To: Akemann, Jamie
Cc: Mears, Scott; Mary.Anne Hogan Johnson; Alyssa Wisenor; Stephen Hardy; Bob Richardson Jr
Subject: RE: Meijer
Importance: High

Jamie

Looks like we can support. Alyssa will coordinate with logistics on product.

Thanks much for all Meijer does to support our categories

Bob Richardson
Director Of Sales, Customer and Industry Development
Bus:972-871-6721 Cell: **PPI**

From: Akemann, Jamie [mailto:Jamie.Akemann@meijer.com]
Sent: Tuesday, July 28, 2015 1:05 PM
To: Bob Richardson Jr
Cc: Mears, Scott
Subject: Meijer

Bob,

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Meijer needs some help supporting the Flint Michigan community and was hoping Clorox can jump in.

They are having some issues with water quality and are looking for a donation of 1500 water filters for drinking water.

Would Clorox consider donating as a silent partner with Meijer?

Please let me know as we want to support the community.

Best Regards,

Jamie

The product ID for a Brita Filter for kitchen faucets is:
> Product ID 3176421
> UPC 7-23987-0078

meijer
Jamie Akemann
Vice President Hardlines
2350 3 Mile Road NW l Grand Rapids, MI 49544
P: (616) 791-3082 C: PPI
Jamie.Akemann@meijer.com

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From: Clayton, Stacie (GOV)
Sent: Friday, July 31, 2015 9:55 AM
To: Akemann, Jamie
Cc: Bob Richardson Jr; Mears, Scott; Mary.Anne Hogan Johnson; Alyssa Wisenor; Stephen Hardy; Rolland, Heather; Hollins, Harvey (GOV); Behler, Stacie
Subject: Re: Meijer

Good Morning All,

Thank you, again.

Is it possible to delay the shipment of the filters until next Tuesday, August 4?

I was just informed they are creating a distribution plan in Flint so the filters can be given to the community when received. This will alleviate the church having to store the filters.

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<image001.png>
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Mary Anne, Alyssa

Can we delay shipment ?

Thanks

Bob Richardson
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From: Mary.Anne Hogan Johnson <mary.anne.hogan.johnson@clorox.com>
Sent: Friday, July 31, 2015 11:21 AM
To: Clayton, Stacie (GOV); Akemann, Jamie
Cc: Bob Richardson Jr; Mears, Scott; Alyssa Wisenor; Stephen Hardy; Rolland, Heather; Hollins, Harvey (GOV); Behler, Stacie
Subject: RE: Meijer

Hello Stacie,
We will order the product today for delivery after Tuesday. We will let you know the exact date and the tracking information when available.
Thank you.

-----Original Message-----
From: Clayton, Stacie (GOV) [mailto:claytons3@michigan.gov]
Sent: Friday, July 31, 2015 9:55 AM
To: Akemann, Jamie
Cc: Bob Richardson Jr; Mears, Scott; Mary.Anne Hogan Johnson; Alyssa Wisenor; Stephen Hardy; Rolland, Heather; Hollins, Harvey (GOV); Behler, Stacie
Subject: Re: Meijer

Good Morning All,

Thank you, again.

Is it possible to delay the shipment of the filters until next Tuesday, August 4?

I was just informed they are creating a distribution plan in Flint so the filters can be given to the community when received. This will alleviate the church having to store the filters.

I apologize for not communicating this sooner. Please let me know if the delay is possible.

Stacie Clayton
Sent from my iPhone

On Jul 31, 2015, at 7:40 AM, Akemann, Jamie <Jamie.Akemann@meijer.com<mailto:Jamie.Akemann@meijer.com>> wrote:

Good morning,

Below is the address for delivery of the water filters. Please copy Stacie Clayton when they are shipped with a tracking number. She will ensure someone is at the church the day of delivery.

Thanks for the support!

Deliver to:

Pastor Allen Overton
Mt. Carmel Baptist Church

1610 West Pierson Road
Flint, MI 48504
810.397.0219

Please let me know if you need anything else from me.

Stacie
313.456.4994 (office)
claytons3@michigan.gov<mailto:claytons3@michigan.gov>

From: Bob Richardson Jr [mailto:bob.richardson@clorox.com]
Sent: Tuesday, July 28, 2015 4:17 PM
To: Akemann, Jamie
Cc: Mears, Scott; Mary.Anne Hogan Johnson; Alyssa Wisenor; Stephen Hardy; Bob Richardson Jr
Subject: RE: Meijer
Importance: High

Jamie

Looks like we can support. Alyssa will coordinate with logistics on product.

Thanks much for all Meijer does to support our categories

Bob Richardson
Director Of Sales, Customer and Industry Development
Bus:972-871-6721 Cell: PPI

From: Akemann, Jamie [mailto:Jamie.Akemann@meijer.com]
Sent: Tuesday, July 28, 2015 1:05 PM
To: Bob Richardson Jr
Cc: Mears, Scott
Subject: Meijer

Bob,

I hope all is well for you and I look forward to seeing you this fall at our vendor summit.

Meijer needs some help supporting the Flint Michigan community and was hoping Clorox can jump in.

They are having some issues with water quality and are looking for a donation of 1500 water filters for drinking water.

Would Clorox consider donating as a silent partner with Meijer?

Please let me know as we want to support the community.

Best Regards,

Jamie

The product ID for a Brita Filter for kitchen faucets is:

> Product ID 3176421

> UPC 7-23987-0078

<image001.png>
Jamie Akemann
Vice President Hardlines
2350 3 Mile Road NW l Grand Rapids, MI 49544
P: (616) 791-3082 C: PPI
Jamie.Akemann@meijer.com<mailto:Jamie.Akemann@meijer.com>

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Sent: Friday, July 31, 2015 11:36 AM
To: Mary.Anne Hogan Johnson
Cc: Akemann, Jamie; Bob Richardson Jr; Mears, Scott; Alyssa Wisenor; Stephen Hardy; Rolland, Heather; Hollins, Harvey (GOV); Behler, Stacie
Subject: Re: Meijer

Thank you so much. Have a wonderful weekend!

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Sent from my iPhone

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> Deliver to:
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> Pastor Allen Overton
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> 1610 West Pierson Road
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> 810.397.0219
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> Please let me know if you need anything else from me.
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>> Product ID 3176421
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From: Bob Richardson Jr <bob.richardson@clorox.com>
Sent: Friday, July 31, 2015 11:45 AM
To: Clayton, Stacie (GOV); Mary.Anne Hogan Johnson
Cc: Akemann, Jamie; Mears, Scott; Alyssa Wisenor; Stephen Hardy; Rolland, Heather; Hollins, Harvey (GOV); Behler, Stacie
Subject: RE: Meijer

Mary Anne

Thanks for making this happen

Bob Richardson
Director Of Sales, Customer and Industry Development
Bus:972-871-6721 Cell: PPI

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Sent: Friday, July 31, 2015 10:36 AM
To: Mary.Anne Hogan Johnson
Cc: Akemann, Jamie; Bob Richardson Jr; Mears, Scott; Alyssa Wisenor; Stephen Hardy; Rolland, Heather; Hollins, Harvey (GOV); Behler, Stacie
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Sent from my iPhone

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> 2350 3 Mile Road NW | Grand Rapids, MI 49544
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From: Clayton, Stacie (GOV)
Sent: Monday, August 03, 2015 4:43 PM
To: PPI
Cc: Hollins, Harvey (GOV)
Subject: Flint Water Filter Distribution Plan

Rev. Overton,

This email is a follow up to our conversation regarding the distribution plan for the donated water filters. I'm typing this since you were driving and had to tell me verbally. Please let me know if I missed anything.

1500 filters are being donated

- ✓ 500 will be distributed at Mt. Carmel church on the North End
- ✓ 500 will be distributed at Woodside Church on the East End
- ✓ 500 will be distributed on the South End (you are awaiting confirmation on the location)

Communication about distribution of the water filters

- ✓ Faith-based Newspaper
- ✓ Radio
- ✓ Talk Shows
- ✓ Ch. 12 News

Qualifications to receive a filter

- ✓ Must be a Flint resident (verified by driver's license)
- ✓ Distributions at all sites will be monitored to ensure there is only per household

Potential Issues

- ✓ Concerned Pastors group would like filters to go only to low income families
- ✓ Coalition for Clean Water believes anyone should be able to get the filters since everyone drinks the same water no matter income
- ✓ The Coalition believes 1500 is not nearly an adequate number to address the problem
- ✓ The Pastors want to work with what they have right now and address getting more later
- ✓ Pastor Overton wants to ensure this disagreement on the number does not become the focal point of Tuesday's meeting
- ✓ Contamination levels still need to be addressed

From: Muchmore, Dennis (GOV)
Sent: Wednesday, August 05, 2015 9:04 AM
To: Hollins, Harvey (GOV)
Cc: Clayton, Stacie (GOV)
Subject: RE: '20150804_Meeting with Flint's Clean Water Coalition'

I didn't think that meeting was as useful as others. If people won't accept the factual information, I'm not sure there is much we can do about it. They're getting their own filters, we've installed six at the main and I thought there were six more coming. As for the flushing, that's part of any city's water system, and people in every community pay for it. As to the frequency, there must be a plan to reduce the number of times.

Questions:
Why does KWA only produce 18 million gals? Doesn't make sense to have a system that doesn't produce enough water. Where do they expect to get the other from? Especially since GM doesn't want the Flint river water (even though presumably GM has been both the biggest commercial user and disposer), how do they separate out the flow?

We can't do too many more of these. The three activists in the room just want to be right, they don't want answers. No matter what we say they'll always want something else to be the answer. The Pastors and the woman form yesterday who usually sits across from me and who always lectures us (that's just a reminder of some of the old time negative racial experiences she's had and I get it) are really a strong group of people. Usually there is a black woman who comes with them, but I missed her yesterday. I really her and of course, Overton and Hill are pretty impressive people in their own right.

From: Hollins, Harvey (GOV)
Sent: Wednesday, August 5, 2015 8:32 AM
To: Muchmore, Dennis (GOV)
Cc: Clayton, Stacie (GOV)
Subject: '20150804_Meeting with Flint's Clean Water Coalition'

From: Akemann, Jamie <Jamie.Akemann@meijer.com>
Sent: Tuesday, August 18, 2015 2:45 PM
To: Clayton, Stacie (GOV)
Cc: Mary.Anne Hogan Johnson; bob.richardson@clorox.com; Hollins, Harvey (GOV)
Subject: Re: Brita Water Filters for Flint

Bob,

Not sure how this broke down but can Clorox helps us get the correct product? I will check original email but certain it contained model requested.

Please let us know.

Thanks,

On Aug 18, 2015, at 2:02 PM, Clayton, Stacie (GOV) <claytons3@michigan.gov> wrote:

> Greetings All,
>
> Again, thank you, for your assistance in securing and shipping the Brita filters to Flint. Unfortunately, it seems the wrong product was sent. The first picture on this email is from Mark Murray and this is the product (1 white faucet and 1 filter) he and Harvey discussed. The second picture is the product that was shipped to Flint.
>
> Below is the information for the product that should have been shipped. We apologize if there was any error on our end. Please let me know if there is a way to have the correct product shipped and the other product returned (only 1 box was opened). The community is hoping to distribute the faucet filters on August 27.
>
> ***The product ID for a Brita Filter for kitchen faucets is:***
>
> ***Product ID 3176421***
>
> ***UPC 7-23987-0078***
>
> Thank you,
> ***Stacie***
>
> Stacie Clayton, Assistant Director
> Harvey Hollins III, Director
> Governor's Office of Urban Initiatives
> 3044 West Grand Boulevard, Ste. 14-650
> Detroit, MI 48202
> 313.456.4994 (office)
> claytons3@michigan.gov

<IMG_0677.jpg>

<IMG_2674.jpg>

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From: Rep. Sheldon Neeley (District 34) <SheldonNeeley@house.mi.gov>
Sent: Tuesday, September 22, 2015 6:13 PM
To: Hollins, Harvey (GOV)
Subject: Executive consideration
Attachments: Governor's Budget_all_together_2016_final_481096_7.pdf

I am sending this email to renew my request for assistance from the Governor's Office.

As we engage these challenges, Flint must revisit the present water revolving loan plans to determine how these current funding obligations will affect water delivery and asset development for the future. It is clear that no significant improvements can be obtained without some supportive concessions. Therefore, I am requesting on behalf of the 34th district (Flint) for you to consider an Executive decision to forgive (in-total or part) Flint's water fund loan balances of $20,770,336.00 so that we may effectively apply those funds to rebuilding the City's infrastructure, to competitively obtaining highly qualified personnel and provide a more cost effective water delivery system. Hence, I know there has been many request made of your office to resolve this very serious issue but this approach will best safeguard the health and welfare of the residents of Flint as well as minimize the potential for litigation against the City of Flint and/or the State of Michigan.

Please see a previous request letter for assistance attached to this communication.

Thank you

From: Rep. Sheldon Neeley (District 34) <SheldonNeeley@house.mi.gov>
Sent: Tuesday, September 22, 2015 6:18 PM
To: Hollins, Harvey (GOV)
Subject: Executive Consideration
Attachments: Neeley Letter to the Governor 01-29-15.pdf

My apologies. You now have the correct attachment.

I am sending this email to renew my request for assistance from the Governor's Office.

As we engage these challenges, Flint must revisit the present water revolving loan plans to determine how these current funding obligations will affect water delivery and asset development for the future. It is clear that no significant improvements can be obtained without some supportive concessions. Therefore, I am requesting on behalf of the 34th district (Flint) for you to consider an Executive decision to forgive (in-total or part) Flint's water fund loan balances of $20,770,336.00 so that we may effectively apply those funds to rebuilding the City's infrastructure, to competitively obtaining highly qualified personnel and provide a more cost effective water delivery system. Hence, I know there has been many request made of your office to resolve this very serious issue but this approach will best safeguard the health and welfare of the residents of Flint as well as minimize the potential for litigation against the City of Flint and/or the State of Michigan.

Please see a previous request letter for assistance attached to this communication.

Thank you

34TH DISTRICT
STATE CAPITOL
P.O. BOX 30014
LANSING, MI 48909-7514
PHONE: (517) 373-8808
FAX: (517) 373-5997
E-MAIL: sheldonneeley@house.mi.gov

MICHIGAN HOUSE OF REPRESENTATIVES

SHELDON A. NEELEY

STATE REPRESENTATIVE

January 29, 2015

Honorable Rick Snyder, Governor
State of Michigan

Dear Gov. Snyder,

With the dawn of a new beginning in our state, the city of Flint stands on the precipice of civil unrest. This letter comes as an appeal to your office concerning this proud Michigan community and recent discussions pertaining to Flint's water distribution and management strategies for both present and future operations. Flint has had a long history concerning the implementation of water practices and financial management of its water assets. Our present journey has caused us to take a closer look at our 80-year-old infrastructure and examine a difficult position where we must correct some past and even present challenges, one of which is affecting the people of my community to the point of a fervor over something as simple as drinking clean water.

As we engage these challenges, Flint must revisit the present water revolving loan plans to determine how these current funding obligations will affect water delivery and asset development for the future. It is clear that no significant improvements can be obtained without some supportive concessions. Therefore, I am requesting on behalf of the 34th District, which contains a portion of the city of Flint, for you to consider an executive decision to forgive (in-total or part) Flint's water fund loan balances of $20,770,336 so that we may effectively apply those funds to rebuilding the city's infrastructure, to competitively obtain highly qualified personnel and provide a more cost effective water delivery system. I understand there has been many requests made of your office to resolve this very serious issue, but this approach will best safeguard the health and welfare of the residents of Flint as well as minimize the potential for litigation against the city of Flint and/or the state of Michigan.

With a cost-effective water delivery system, we will be able to improve our system in the following ways: upgrade wastewater treatment processes, improve safe drinking water upgrades, and maintain and sustain a water system that provides a better quality of water product to the citizens of Flint.

Recycled Paper

It is imperative that this issue be addressed in some way on the state level. Residents of Flint are already finding themselves forced to take drastic measures simply to have clean drinking water.

Community health could be on the decline as citizens become afraid to even shower or bathe in their homes. The people of Flint bring bottles of brown water full of sediment and other foreign substances to community meetings, asking only to be treated as human beings. That is all I am asking of you - to see the suffering and anger from the people in one of Michigan's municipalities and understand that there is a need to react and respond to this crisis.

With the beginning of a new year to work toward a better Michigan, my office is ready to have discussions on this request and other planning that works to improve OUR Michigan. I sincerely thank you in advance for your consideration on this matter.

For the Love of the Community,

Sheldon A. Neeley, State Representative
34th District

CC: Dennis Muchmore
Dick Posthumus

From: Murray, David (GOV)
Sent: Thursday, September 24, 2015 11:37 AM
To: Hollins, Harvey (GOV); Wurfel, Sara (GOV)
Cc: Clayton, Stacie (GOV); Muchmore, Dennis (GOV)
Subject: RE: New ACLU video gets tough with Flint officials over lead levels | Blogs | Detroit Metro Times

Harvey,

We're hearing from MLive that Hurley Hospital has called a 3 p.m. press conference to discuss the lead levels in blood collected from children. I'm working to get the report from Hurley ASAP. Working with Geralyn on a response.

Dave

-----Original Message-----
From: Hollins, Harvey (GOV)
Sent: Thursday, September 24, 2015 11:36 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Cc: Clayton, Stacie (GOV) <claytons3@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>; Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: Re: New ACLU video gets tough with Flint officials over lead levels | Blogs | Detroit Metro Times

Sarah--per our discussion yesterday, what is the status of announcing the DEQ action to address the water quality in Flint?

-HH

> On Sep 24, 2015, at 11:03 AM, Clayton, Stacie (GOV) <claytons3@michigan.gov> wrote:
>
>
> http://m.metrotimes.com/Blogs/archives/2015/09/23/new-aclu-video-gets-tough-with-flint-officials-over-lead-levels
>
>
> Stacie Clayton
> Sent from my iPhone

From: Murray, David (GOV)
Sent: Thursday, September 24, 2015 11:47 AM
To: Hollins, Harvey (GOV)
Subject: FW: Hurley Hospital's bulletin regarding Flint water

From: Murray, David (GOV)
Sent: Thursday, September 24, 2015 11:47 AM
To: Lasher, Geralyn (DCH) <lasherg@michigan.gov>; 'Minicuci, Angela (DCH)' <MinicuciA@michigan.gov>; 'Smith, Jennifer (DCH)' <smithj32@michigan.gov>; 'Wurfel, Brad (DEQ)' <Wurfel8@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>
Subject: Hurley Hospital's bulletin regarding Flint water

Team,

Here's the media bulletin issued by Hurley Hospital in Flint about the lead blood levels press conference this afternoon. I've reached out to Hurley's communications team, which has promised to send me whatever it has shared with the media on an embargoed basis. I'll forward that as soon as I receive it.

Dave

HURLEY
MEDICAL CENTER

Contact: Rebecca Jensen
810-262-6143(office)
PPI (cell)
rjensen@hurleymc.com
September 24, 2015

Media Alert

FOR IMMEDIATE RELEASE

WHO: **Genesee County Medical Community**, including Hurley Medical Center, Greater Flint Health Coalition, Mott Children's Health Center, Hamilton Community Health Network & Genesee County Medical Society

WHAT: Press conference to address medical community's concerns regarding lead levels in the city of Flint's water supply and appropriate precautionary measures.

WHEN: **3pm, Today, September 24th, 2015**

WHERE: Hurley Medical Center, Charles White Conference Center

Media Note: Please enter on the Sixth Avenue entrance and check in with front desk upon arrival to be escorted to the Charles White Conference Center.

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

From: Joice, Paul A <Paul.A.Joice@hud.gov>
Sent: Thursday, September 24, 2015 3:38 PM
To: Hollins, Harvey (GOV)
Subject: Flint water

Harvey,

It was nice running into you last week on the Metro in DC. I hope the CBC conference was productive. I'm glad we had the opportunity to discuss the challenges with Flint's water system. As you're probably aware, the situation has really deteriorated over the past couple weeks, even since we spoke. It's becoming more and more clear that there's a real lead problem in the City, even though the official City/MDEQ tests aren't yet showing lead levels that exceed the EPA standard. For example, researchers at Hurley Hospital are seeing dangerous lead levels in children they treat (http://www.mlive.com/news/flint/index.ssf/2015/09/study_shows_twice_as_many_flin.html#incart_river).

The City is planning to issue a health advisory, and the US Department of Agriculture will probably start providing pre-mixed formula to parents in the WIC program. There's also big push to buy filters using private donations. Those are both important short-term responses to mitigate the hazard for the most vulnerable.

But there's still the question of how to "fix" the problem. I have some thoughts I'd like to run by you, but it might be best to discuss by phone. Could you spare 15 minutes, sometime tomorrow (Friday)?

Thanks,
Paul

Paul Joice
Flint Team Lead, White House Strong Cities, Strong Communities Initiative
Office: (810) 766-7135, Ext 3005
Mobile: PPI
Paul.A.Joice@hud.gov

From: Brian Larkin <blarkin@flintandgenesee.org>
Sent: Thursday, September 24, 2015 5:36 PM
To: Hollins, Harvey (GOV)
Subject: Flint Water Piece in MLIVE

http://www.mlive.com/opinion/flint/index.ssf/2015/09/abandon_flint_river_for_drinki.html#comments

The local editorial board, which has up to this point been in support of most of the steps, is calling out the Governor in response to Hurley Hospital's report indicating elevated levels of lead in babies and toddlers in Flint since the water switch.

From: Murray, David (GOV)
Sent: Tuesday, September 29, 2015 9:44 AM
To: Hollins, Harvey (GOV)
Subject: RE: Proposed Press Conference on Flint Drinking Water

Absolutely! I'll pull together some of the things we've been saying in the last few days and modify them.

From: Hollins, Harvey (GOV)
Sent: Tuesday, September 29, 2015 9:43 AM
To: Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: FW: Proposed Press Conference on Flint Drinking Water

David,
Could you think about what we need to say on behalf of the Governor at this press conference? I am interested in your thoughts.
Harvey

From: Muchmore, Dennis (GOV)
Sent: Monday, September 28, 2015 2:27 PM
To: Wyant, Dan (DEQ) <WyantD@michigan.gov>; Lyon, Nick (DCH) <LyonN2@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Cc: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Lasher, Geralyn (DCH) <lasherg@michigan.gov>; Thelen, Mary Beth (DEQ) <THELENM2@michigan.gov>
Subject: RE: Proposed Press Conference on Flint Drinking Water

Thank you, you're always ahead of us. I don't have any reservations about the PC, although as I mentioned I don't see any reason to have Mr. Sienko, as we have a top notch professional in Eden Wells and certainly Tim and Geralyn if need be.

From: Wyant, Dan (DEQ)
Sent: Monday, September 28, 2015 7:18 AM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>; Lyon, Nick (DCH) <LyonN2@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Cc: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Lasher, Geralyn (DCH) <lasherg@michigan.gov>; Thelen, Mary Beth (DEQ) <THELENM2@michigan.gov>
Subject: Proposed Press Conference on Flint Drinking Water

Per the ongoing issues in Flint concerning their drinking water, I would offer the following recommendations. Let's discuss.

Recommendation

Press Conference in Flint – Wednesday, Thursday or Friday.

Participants

Mayor of Flint

Dan Wyant – Michigan Department of Environmental Quality
Nick Lyon – Department of Community Health
Susan Hedman – Region 5 Administrator or EPA
Harvey Hollins – Governor's office
Local Public Health Department

Announcement

Federal – State – Local action plan to address Flint Drinking Water

1. Governor Snyder names Dr. Dean Sienko as Flint drinking water Public Health Advisor.

2. All Flint schools water will immediately be tested to ensure that drinking water is safe.

3. Advisories will be disseminated recommending citizens flush your cold water pipes, use only water from the cold water tap for drinking, cooking and especially for making baby formula.

4. Implementation of fully optimized corrosion controls in the Flint drinking water system.

5. Expanded water testing of at risk properties.

6. Offer water testing at no cost to Flint residents to assure water is safe.

7. Convene a safe drinking water " Technical Review Advisory" to ensure best technology, practices and science is being utilized, including EPA's expertise and assistance from their Office of Research and Development.

8. Offer bottled water and premixed formula if test results indicate high levels of lead.

9. Accelerate water system improvements to address replacement of lead service lines.

Dan Wyant, Director
Department of Environmental Quality
517-284-6700 (New Number)

From: Murray, David (GOV)
Sent: Tuesday, September 29, 2015 11:20 AM
To: Hollins, Harvey (GOV)
Subject: RE: Flint Channel 12

Yes. Surprised she did that. I did send statements to Channel 12 and Flint Journal.

Also started talking about the filter donations. Came up at the same meeting. Not mentioning the name of the corporate sponsors, but giving lots of love to the concerned pastors for helping with the effort. They should like that.

From: Hollins, Harvey (GOV)
Sent: Tuesday, September 29, 2015 11:18 AM
To: Wurfel, Sara (GOV) <Wurfels@michigan.gov>; Murray, David (GOV) <MurrayD1@michigan.gov>
Subject: Flint Channel 12

Are you aware of this? http://www.abc12.com/home/headlines/Flint-City-Administrator-supports-move-to-Detroit-water-says-state-needs-to-help-pay-329874281.html

From: Saxton, Thomas (Treasury)
Sent: Tuesday, September 29, 2015 11:43 AM
To: Hollins, Harvey (GOV)
Subject: FW: Flint River Water Quality

fyi

From: Koryzno, Edward (Treasury)
Sent: Tuesday, September 29, 2015 9:58 AM
To: Natasha Henderson (Nhenderson@cityofflint.com) <Nhenderson@cityofflint.com>
Cc: Saxton, Thomas (Treasury) <SaxtonT@michigan.gov>; Dempkowski, Angela (Treasury) <DempkowskiA@michigan.gov>
Subject: Flint River Water Quality

Natasha,

I am following up on yesterday's phone call with you.

Angela will contact you to set up a conference call for tomorrow afternoon. Because Wayne is out of town Tom Saxton will participate in the discussion regarding your request. Tom and I would request you, Peter Bade and Howard Croft be on the call.

We have a number of follow-up questions: What is the basis for the estimated $18M cost to temporarily reconnect to the Great Lakes Water Authority? What is the timeline? Why didn't Viola advise the City about the potential for elevated lead levels when using Flint river water? What assurances do you have indicating a temporary reconnection to the Water Authority resolves the elevated lead problem or other system problems? Who are the assurances from? Did the Viola report recommend using Ortho Phosphates to treat the water?

Ed

Edward B. Koryzno, Jr. | Director – Bureau of Local Government Services
State of Michigan | 430 W. Allegan Street, 3rd Floor | Lansing, MI 48922
(517) 373-4415 | (517) 373-0633 (fax)
KoryznoE@michigan.gov

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Thank you

From: Brown, Frank <fbrown@generalatlantic.com>
Sent: Wednesday, September 30, 2015 3:53 PM
To: Baird, Richard (GOV); Hollins, Harvey (GOV)
Cc: aaron_s_bonham@homedepot.com; STACEY_TANK@homedepot.com
Subject: Fwd: Flint water background information

Hi all. Figure I will just connect everyone and let you figure out from here. Hope this can result in some help. All the best.

Frank

Sent from my iPad

Begin forwarded message:

From: <Aaron_S_Bonham@homedepot.com<mailto:Aaron_S_Bonham@homedepot.com>>
Date: September 30, 2015 at 6:00:47 PM GMT+1
To: <fbrown@generalatlantic.com<mailto:fbrown@generalatlantic.com>>
Cc: <STACEY_TANK@homedepot.com<mailto:STACEY_TANK@homedepot.com>>
Subject: Flint water background information

Frank,

Received your email from Craig. We would be glad to help.

Can you provide any additional information on filter sizes needed in the area and quantity you might be looking for?

We are also going to look to donate bottled water if that makes sense?

Aaron Bonham
Home Depot
Merchandise Vice President
Department 26 Plumbing
770-384-3947
aaron_s_bonham@homedepot.com<mailto:aaron_s_bonham@homedepot.com>
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From:
Sent: Wednesday, September 30, 2015 4:06 PM
To: fbrown@generalatlantic.com; Baird, Richard (GOV); Hollins, Harvey (GOV)
Cc: STACEY_TANK@homedepot.com
Subject: RE: Flint water background information

Richard,

Let me know when a good time would be to connect for us to discuss how The Home Depot can support the needs in Flint.

My cell # is **PPI**

Aaron Bonham
Home Depot
Merchandise Vice President
Department 26 Plumbing
770-384-3947

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-----Original Message-----
From: Brown, Frank
Sent: Wednesday, September 30, 2015 3:53 PM
To: Richard Baird; hollinsh@michigan.gov
Cc: Bonham, Aaron S; Tank, Stacey M
Subject: Fwd: Flint water background information

Hi all. Figure I will just connect everyone and let you figure out from here. Hope this can result in some help. All the best.

Frank

Sent from my iPad

Begin forwarded message:

From:
Date: September 30, 2015 at 6:00:47 PM GMT+1
To:
Cc:
Subject: Flint water background information

Frank,

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Can you provide any additional information on filter sizes needed in the area and quantity you might be looking for?

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Home Depot
Merchandise Vice President
Department 26 Plumbing
770-384-3947

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From: Brian Larkin <blarkin@flintandgenesee.org>
Sent: Wednesday, October 07, 2015 3:38 PM
To: Hollins, Harvey (GOV)
Cc: Clayton, Stacie (GOV)
Subject: Flint City Council KWA Vote

Still waiting on hearing back from the city to get the original resolution but here are the mlive pieces that covered it from March until July. The meeting when the vote was held was March 25, 2013

March 25th 2013 **Flint council supports buying water from Lake Huron through KWA**
http://www.mlive.com/news/flint/index.ssf/2013/03/flint_city_council_again_delay.html
The Flint City Council voted 7-1 to get 16 million gallons per day from the Karegnondi Water Authority.

7th Ward councilperson Dale Weighill was absent
3rd Ward councilperson Bryant Nolden opposed
The rest were in favor.

March 25th, 2013 **Flint City Council approves resolution to buy water from Karegnondi, state approval still needed**
http://www.mlive.com/news/flint/index.ssf/2013/03/flint_city_council_approves_re.html
Under the proposal, Flint would get 16 million gallons per day of raw water from Lake Huron, pipe it to Flint for treatment and then sell it to customers throughout the City. Another 2 million gallons per day would come from the Flint River and will be treated in Flint. DEQ told the city it needed to get 18 million gallons per day or there would have to be additional work done at Flint's water plant. Flint's water plant and the Flint River is currently the backup for Flint and Genesee County, however, the plant only operates four times per year.

April 12th **State gives Flint OK to join Karegnondi Water Authority project, but Detroit gets to make final offer**

http://www.mlive.com/news/flint/index.ssf/2013/04/state_gives_flint_ok_t.html

The city of Flint has the state's blessing to join in construction of the planned Karegnondi Water Authoritypipeline project once it reviews a final offer from the city of Detroit on Monday, April 15.

April 19th **Governor steps into water war; set to meet with Genesee, Flint, Detroit today**

http://www.mlive.com/news/flint/index.ssf/2013/04/governor_steps_into_water_war.html#incart_river_default

The meeting comes in the same week that the Flint and Genesee County rejected a final offer to continue buying water from Detroit and two days after Detroit gave Flint a notice of termination of its 1965 water contract.

April 19th **Detroit gives notice: It's terminating water contract covering Flint, Genesee County in one year**

http://www.mlive.com/news/flint/index.ssf/2013/04/detroit_gives_notice_its_termi.html

The city of Detroit has given notice that it's terminating a nearly 50-year-old contract for selling water to Flint and the county next year.

July 23rd **Flint River now an option for drinking water following Detroit's termination of contract**

http://www.mlive.com/news/flint/index.ssf/2013/07/city_readying_water_plant_to_t.html

The Flint River was not a viable option to provide drinking water to city residents when the water relationship between Flint and Detroit was stable. But river water might be used temporarily as the city's water supply now that Flint signed an agreement with the Karegnondi Water Authority and will get up to 18 million gallons per day of raw water in 2016 from Lake Huron. The Flint River hadn't been an option, city officials previously said, because upgrades to Flint's water plant would be too expensive, the river didn't provide enough capacity to serve Flint residents' water needs and the Michigan Department of Environmental Quality would not allow it.

Brian Larkin

Director, Core Initiatives

Flint & Genesee Chamber of Commerce
519 S. Saginaw Street • Suite 200 • Flint, MI 48502
(P) 810.600.1406 (C) PPI • (F) 810.600.1461
www.FlintandGenesee.org • BLarkin@FlintandGenesee.org

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From: Clayton, Stacie (GOV)
Sent: Wednesday, October 07, 2015 4:07 PM
To: Thelen, Mary Beth (DEQ)
Cc: Hollins, Harvey (GOV)
Subject: FW: Flint City Council KWA Vote

Mary Beth,

Harvey is still waiting on hearing back from the city to get the original resolution but here are the mlive pieces that covered it from March 2013 until July 2013. The meeting when the vote was held was March 25, 2013. Here is what we have so far. I'll forward the actual resolution as soon as we receive it.

Stacie

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From: Murray, David (GOV)
Sent: Wednesday, October 21, 2015 1:17 PM
To: Hollins, Harvey (GOV); Clayton, Stacie (GOV)
Subject: Flint task force notifications

Hello Harvey,

Sara asked that I send this to you for notifications. Would you be able to reach out to the Mott Foundation, pastors group and Mayor Walling's Office? The plan is to issue between 2 and 2:30, with potential notifications around 2 p.m.

Thank you very much!

Dave

Gov. Rick Snyder announces Flint Water Task Force to review state, federal and municipal actions, offer recommendations

Experts in public health, water management, environmental protection to focus on steps to protect residents

LANSING, Mich. – Gov. Rick Snyder today announced the creation of an independent advisory task force charged with reviewing actions regarding water use and testing in Flint and offer recommendations for future guidelines to protect the health and safety of all state residents.

Task force members include experts in public health and medicine, water management, and environmental protection from both sides of the aisle, and will be co-chaired by Ken Sikkema of Public Sector Consultants and Chris Kolb, of the Michigan Environmental Council. Also serving will be Dr. Matthew Davis of the University of Michigan Health System, Eric Rothstein, of the Galardi Rothstein Group and Dr. Lawrence Reynolds of Mott Children's Health Center in Flint.

"Transitioning back to the Detroit Water and Sewerage Department-Great Lakes Water Authority is a good first step to protecting public health in Flint, but it's not the last step," Snyder said. "Bringing in outside experts to evaluate our actions and help monitor and advise on potential changes to law, procedures and practices will be key to continuing work on the comprehensive action plan and ensuring safe drinking water for all the residents in Flint and all of Michigan."

Snyder said the administration will fully cooperate with task force members, saying he wants an unbiased report focusing on steps taken in the past and recommendations that could improve practices to ensure all residents have access to safe, clean water.

Ken Sikkema is a senior policy fellow at Public Sector Consultants, where he specializes in public finance, environment, and energy policy. Prior to joining the firm, Sikkema served in both the Michigan House and Senate, culminating with four years as Senate majority leader. He has also served as both an adjunct and visiting professor at Grand Valley State University.

Chris Kolb is president of the Michigan Environmental Council, a statewide coalition of 70 environmental, public health and faith-based nonprofit groups. Before joining the MEC, Kolb represented Ann Arbor in the state House for six years and served six years on the Ann Arbor City Council. He has been president of the MEC for six years.

Matthew Davis, M.D., M.A.P.P., is professor of pediatrics and internal medicine at the University of Michigan Health System and professor of public policy at the Gerald R. Ford School at the University of Michigan, having joined the faculty in 2000. Davis also is a professor of health management and policy at the School of Public Health. He previously served as the chief medical executive of the Michigan Department of Community Health/Department of Health and Human Services.

Eric Rothstein is a national water issues consultant and principal at the Galardi Rothstein Group. He served as an independent advisor on the creation of the Great Lakes Water Authority. Rothstein also has served as Jefferson County, Alabama's rate consultant and municipal adviser for litigation related to the county's bankruptcy and issuance of $1.7 billion in sewer warrants and led strategic financial planning for the City of Atlanta's Department of Watershed Management. He has more than 30 years of experience in water, wastewater and stormwater utility finance and rate-making assessments.

Lawrence Reynolds, M.D., is a pediatrician in Flint who serves as president of the Mott Children's Health Center. He received his medical degree from Howard University College of Medicine and has been in practice for 36 years. He has served as president of the Genesee County Medical Society and the Michigan Chapter of the American Academy of Pediatrics. He has been honored for his humanitarian and advocacy efforts on behalf of children from the Community Foundation of Greater Flint.

Snyder has said reconnecting with the authority is a critical step to resolving water quality issues and addressing related health concerns. It will not immediately resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control.

To best protect public health, state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure. The Michigan Departments of Environmental Quality and Health and Human Services are continuing to provide free water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

####

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

From: Khouri, Claire (GOV)
Sent: Tuesday, October 27, 2015 10:30 AM
To: Hollins, Harvey (GOV); Clayton, Stacie (GOV)
Subject: Flint Water - FDCVT App before Treasury
Attachments: Flint (Water) - Application.pdf

Hi Harvey,

I just got off the phone with Stacie re: the attached app before the Treasury FDCVT review committee. When you get a chance can we connect on this?

Thanks!

Claire Khouri
Senior Strategy Advisor
Office of Governor Rick Snyder
517-335-9079
KhouriC@michigan.gov

RECEIVED
OCT 15 2015
Office of Revenue
& Tax Analysis

CITY OF FLINT

Dayne Walling
Mayor

Natasha L. Henderson
City Administrator

Thursday, October 15, 2015
Michigan Department of Treasury
Office of Revenue and Tax Analysis
P.O. Box 30722
Lansing, MI 48909

Re: Letter of Support for Financially Distressed Cities, Villages, and Townships Grant

County: Genesee Local Unit Code: 252040

To whom it may Concern:

Please accept this letter as the City of Flint's commitment to the Michigan Department of Treasury's Financially Distressed Cities, Villages, and Townships Grant Program for the Dupont Street Water Main Replacement Project

The replacement of 1.6 miles of water main along Dupont Street is an essential step in addressing the City's water quality challenges. The City's water system is severely antiquated, which is contributing to the current public health emergency, excessive water main breaks, and inefficient distribution of water to residents and businesses. The replacement of this water main will move the City closer to providing efficient, clean, and safe water to the public.

Even though the City has progressed to strategically reduce deficits by seeking new millages, reducing staff, and reducing services, the City still faces critical financial obstacles. The City does not have the financial resources to undertake and pay for a project of this nature. Further, any expenditure by the City for goods or services in excess of $75,000 must be approved by a Receivership Transition Advisory Board. The FDCVT Grant is essential for the successful implementation of this project, which will improve the safety, reliability, and sustainability of the City's water system.

Respectfully,

Natasha L. Henderson 10/15/2015

Natasha L. Henderson, City Administrator Date

City of Flint, Michigan

Application Due Date:
October 15, 2015

Financially Distressed Cities, Villages, and Townships Application (FY 2016)

Issued under authority of 2015 Public Act 84.

PART 1: APPLICANT INFORMATION

1. Applicant Name	2. Applicant Local Unit Code
City of Flint	252040
3. Applicant FEIN	**4. Applicant County**
38-6004611	Genesee

5. Mailing Address	6. City	7. State	8. ZIP Code
1101 South Saginaw	Flint	MI	48502

PART 2: PROPOSAL OVERVIEW

9. Proposal Title
Dupont Street Water Line Replacement Project

10. Estimated Start Date	11. Estimated Completion Date
06/01/2016	08/30/2016
12. Estimated Total Proposal Cost	**13. Grant Amount Requested**
$ 3,985,267.00	$ 2,000,000.00

14. Additional Local Units, if Participating in a Shared Service Project (include county and local unit code). Attach letters of support from each of the participating local units.

NA

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15. Is the applicant(s) willing to devote appropriate resources and time to this proposal?

☒ Yes ☐ No If no, explain why the applicant(s) is unable to devote appropriate resources and time to the proposal.

16. Plan for Partial Funding: If full funding is not awarded, how will you fund the proposal? Can you go forward with the proposal if partial funding is awarded?

If at least $1 million is granted, the remainder of the costs can be budgeted through the Capital Improvements Plan for Fiscal Year 2017.

PART 3: PROPOSAL CONTACT INFORMATION

Note: The proposal contact individual should be a vital part of the grant proposal and will be the Michigan Department of Treasury's contact.

17. Contact Name	18. Contact Title
Howard Croft	Director of Public Works
19. Contact Telephone Number	**20. Contact Fax Number**
(810) 766-7346	(810) 766-7218

21. Contact E-mail Address
hcroft@cityofflint.com

22. Contact Entity Name
City of Flint

PART 4: CONDITIONS OF PROBABLE FINANCIAL DISTRESS

23. Indicate the conditions affecting the applicant that indicate probable financial distress (check all that apply and attach proof of existence for each condition checked).

☐ 1. The governing body or the chief administrative officer of the city, village or township has requested a preliminary review. The request shall be in writing and shall identify the existing or anticipated financial conditions or events that make the request necessary.

☐ 2. The state financial authority has received a written request from a creditor with an undisputed claim, that remains unpaid 6 months after its due date, against the city, village, or township that exceeds the greater of $10,000.00 or 1% of the annual general fund budget of the city, village, or township, provided that the creditor has notified the city, village or township in writing at least 30 days before the creditor's request to the state financial authority of the creditor's intention to submit a written request.

PART 4: CONDITIONS OF PROBABLE FINANCIAL DISTRESS, CONTINUED

- ☐ 3. The state financial authority has received a petition containing specific allegations of financial distress signed by a number of registered electors residing within the city's, village's, or township's jurisdiction equal to not less than 5% of the total vote cast for all candidates for governor within the city's, village's, or township's jurisdiction at the last preceding election at which a governor was elected. The petition shall not have been filed within 60 days before any election of the city, village, or township.
- ☐ 4. The state financial authority has received a written notification that the city, village, or township has not timely deposited its minimum obligation payment to the city's, village's, or township's pension fund, as required by law.
- ☐ 5. The state financial authority has received a written notification that the city, village, or township has failed, for a period of 7 days or more after the scheduled date of payment, to pay wages and salaries or other compensation owed to employees or benefits owed to retirees.
- ☐ 6. The state financial authority has received a written notification from a trustee, paying agent, bondholder, or auditor engaged by the city, village, or township of a default in a bond or note payment or a violation of 1 or more bond or note covenants.
- ☐ 7. The state financial authority has received a resolution from either the senate or the house of representatives requesting a preliminary review of the city, village, or township.
- ☐ 8. The city, village, or township has violated a requirement of, or a condition of an order issued pursuant to, former 1943 PA 202, revenue bond act of 1933, 1933 PA 94, MCL 141.101 to 141.140, the revised municipal finance act, 2001 PA 34, MCL 141.2101 to 141.2821, or any other law governing the issuance of bonds or notes.
- ☐ 9. The city, village, or township has violated the conditions of an order issued by the local emergency financial assistance loan board pursuant to the emergency municipal loan act, 1980 PA 243, MCL 141.931 to 141.942.
- ☐ 10. The city, village, or township has violated a requirement of sections 17 to 20 of the uniform budgeting and accounting act, 1968 PA 2, MCL 141.437 to 141.440.
- ☐ 11. The city, village, or township has failed to timely file an annual financial report or audit that conforms with the minimum procedures and standards of the state financial authority and is required for cities, villages, and townships under the uniform budgeting and accounting act, 1968 PA 2, MCL 141.421 to 141.440a.
- ☐ 12. The city, village, or township is delinquent in the distribution of tax revenues, as required by law, that it has collected for another taxing jurisdiction, and that taxing jurisdiction requests a preliminary review.
- ☒ 13. The city, village, or township is in breach of its obligations under a deficit elimination plan or an agreement entered into pursuant to a deficit elimination plan.
- ☐ 14. A court has ordered an additional tax levy without the prior approval of the governing body of the city, village, or township.
- ☐ 15. The city, village, or township has ended a fiscal year in a deficit condition as defined in section 21 of the Glenn Steil state revenue sharing act of 1971, 1971 PA 140, MCL 141.921, or has failed to comply with the requirements of that section for filing or instituting a financial plan to correct the deficit condition.
- ☒ 16. The city, village, or township has been assigned a long-term debt rating within or below the BBB category or its equivalent by 1 or more nationally recognized credit rating agencies.
- ☒ 17. There is an existence of other facts or circumstances that, in the state treasurer's sole discretion for a city, village or township, are indicative of probable financial stress.

PART 5: PROPOSAL DETAILS

24. Describe Current State of Affairs: What is working well? What is not working? Explain the current condition of infrastructure/equipment.

See attached.

PART 5: PROPOSAL DETAILS, CONTINUED

25. Describe Strategy, Project, or Service Proposal:

The Dupont Street Water Main Project will replace 2 miles of antiqated water main with 24" ductile iron pipe.

26. Describe How Grant Funding will Lead the Applicant Toward Financial Stability:

The replacement of this water main is an essential step in the City's struggle to provide clean, safe, and relaible water utilities to residents and businesses. Work must begin as sson as possible to safeguard the public health and restore public confidence in the City's water system in order for the City's Water and Sewer Fund to regain a sustainable position.

27. Goals, Measures, and Business Objectives of this Proposal: What are the outcomes you hope to achieve? How will you measure the outcomes? Provide the measures which will be used to determine the success of the proposal.

The goals include reducing the probability for future water main breaks in the area, reduction of contaminants from corrosion and leeching, and to improve the efficiency of water distribution throughout the city.

28. Potential Barriers: Describe any barriers that currently exist that may have an impact on the implementation of the proposal.

Potential barriers to the implementation of this project include the potential of receiving contractor bids that exceed the budget for the project and the weather poses a significant risk of slowing the project's timeline.

29. Continuity of Proposal: How do you plan to fund the proposal going forward once awarded grant funds are exhausted?

Once the project is completed there are no significant residual costs. The project is expected to be funded through grant funds and funds from the Utilities Administration Account in the Water and Sewer Fund.

PART 5: PROPOSAL DETAILS, CONTINUED

30. Cost Savings: Will the proposal save money? **Attach a detailed calculation of the cost savings and provide an explanation of how the cost savings were calculated. Do not include any anticipated FDCVT grant funding as part of the cost savings calculation.**

☒ Yes ☐ No

A. SHORT-TERM (1 year or less)	☒ Yes	☐ No	Estimated Short-Term Savings $ 40,000.00
B. LONG-TERM (Greater than 1 year)	☒ Yes	☐ No	Estimated 5 Year Total Savings $ 30,000,000.00

31. Work Plan and Proposal Timeline: What are the implementation steps to ensure this proposal's success? What are the projected outcomes at each step? **Attach a detailed work plan, if the narrative will not fit in the space provided.**

The project is intended to be bid-out at the beginning of 2016, in which a contractor would be selected by February or March. This contractor would furnish a more detailed work plan in their proposal, which outlines the steps of the project.

Work is expected to begin in June and be completed by August of 2016.

32. Total Grant Budget Worksheet: **For each budget category, attach a detailed list of proposed expenditures, including an indication of the priority for each budgeted item. Explain how the expenditures support and are essential to the proposal.**

Budget Category	Estimated Total Proposal Cost	Grant Budget Amount Requested (Total Limited to $2.0 million)
Water Main Replacement	$ 3,985,267.00	$ 2,000,000.00
	TOTAL ESTIMATED PROPOSAL COST $ 3,985,267.00	TOTAL GRANT AMOUNT REQUESTED $ 2,000,000.00

33. Additional Information and Comments:

PART 6: ATTACHMENTS

34. Check the appropriate boxes and attach the following items to the application. All attachments must be included and labeled appropriately.

☒ Attached	☐ N/A	1. Letter of support from each of the participating local units identified in Part 2, Box 14
☒ Attached		2. Proof of existence for each condition of probable financial distress checked in Part 4, Box 23
☒ Attached	☐ N/A	3. Detailed calculation of cost savings and an explanation of how the cost savings were calculated in Part 5, Box 30
☐ Attached	☒ N/A	4. Detailed work plan, if the narrative will not fit in Part 5, Box 31
☒ Attached		5. Detailed list of proposed expenditures to support Part 5, Box 32, including an indication of the priority for each budgeted item and an explanation of how the expenditure will support and is essential to the proposal

PART 7: CERTIFICATION

35. I certify that all statements in this application, including all requested supplemental information, are true, complete and accurate to the best of my knowledge. If awarded, I agree to allow the Michigan Department of Treasury and the State Auditor General's Office (and/or any of their duly authorized representatives) access, for the purposes of inspection, audit, and examination, to any books, documents, papers, and records of the grantee which are related to this proposal. I agree to allow the Michigan Department of Treasury to conduct periodic program reviews of the proposal. The purpose of these reviews will be to determine adherence to stated proposal goals and to review progress of the proposal in meeting its objectives. I agree to submit semiannual and final narrative and financial status reports and a one-year Final Follow-up Report to the Michigan Department of Treasury. I understand that failure to submit any required reports may result in the termination of the grant. I understand that this grant may be terminated if the Michigan Department of Treasury concludes that I am not in compliance with the conditions and provisions of this grant, or have falsified any information. By way of signature, I agree with all conditions of this grant program.

Applicant's Chief Administrative Officer Signature (as defined in MCL 141.422b)	Date
Natasha L Henderson	10/15/2015
Printed Name of Applicant's Chief Administrative Officer (as defined in MCL 141.422b)	**Title**
Natasha L. Henderson	City Administrator

Applications are due October 15, 2015. Completed applications submitted via mail or e-mail must be received by the Michigan Department of Treasury no later than 11:59 p.m. on Thursday, October 15, 2015. Incomplete applications may not be considered.

A signed and completed application (including attachments) can be submitted by e-mail to TreasRevenueSharing@michigan.gov or by mail to:

Michigan Department of Treasury
Office of Revenue and Tax Analysis
PO Box 30722
Lansing MI 48909

Appendix A

Supplemental Answers

for the

Financially Distressed Cities, Villages, and Townships Grant Application

Appendix A
FDCVT Supplemental Answers

Part 5: Proposal Details

Question 24. Describe the current state of affairs. What is working well? What is not working? Explain the current condition of infrastructure/equipment.

The City is currently facing a public health emergency. Water from the Flint River, the City's water source, has been leeching lead from old pipes and solder, contaminating the water supply. Elevated lead levels in children were discovered by physicians at Hurley Hospital and The Genesee County Health Department has issued a Public Health Advisory.

The City of Flint is currently in a state of fiscal distress at a time in which considerable demands are placed upon it relating to water provision, court orders, and assessing practices compliance. The City is attempting to cope with these demands, while revenues are down or drastically reduced. Even though the City has progressed to strategically reduce deficits by seeking new millages, reducing the number of city employees and related costs, and ultimately reducing the services to the public, the City continues to face critical financial challenges. Both the income tax and property tax revenue bases have declined by 55% since the economic downturn in 2008. The current resources available to the City are very restricted and limited.

The City of Flint has been in receivership since December 2011. At that time, the State of Michigan Financial Review Team found that the City has a General Fund deficit of $14,621,546 as of June 30th, 2010, which was not eliminated within the two year preceding period.

The City previously submitted a five year deficit elimination plan for a cumulative general fund deficit of $7,046,820 as of June 30th, 2008. However, by June 30th, 2010, the cumulative general fund deficit had grown to $14,621,546. An updated plan submitted for 2010 did not purport to eliminate cumulative deficit until 2030 and that relied upon the issuance of an additional $12 million of debt in 2013.

A structural operating deficit existed in the general fund as of June 30, 2007, 2008, 2009, 2010, and the General Fund was projected to have a $6,768,864 deficit as of June 30, 2011.

The Comprehensive Annual Financial Report for the fiscal year ended June 30, 2011 was received in December 2011. The City's General Fund, which had a $14.6 million deficit at the beginning of the year, ended it with an $8.9 million deficit. The reduction in the deficit was due solely to an $8 million Fiscal Stabilization Bond issued by the city in March 2011. In total, excluding the impact of the FSB proceeds and the Genesee Towers judgment levy, expenses in the General Fund exceeded revenues. The City's Comprehensive Financial Report revealed an unassigned deficit in the General Fund of $8,961,427 as of June 30, 2014, which had resulted from operating deficits.

The City does not have a current bond rating. The most recent bond rating was from over a decade ago and received a score of Ba1, a qualifying indicator of fiscal distress.

As part of a recent judgment, the City was ordered to repay its Water and Sewer Fund 15.7 million from its General Fund. The recent water challenges have also resulted a lower frequency of bill payments from residents, further reducing revenues. This places considerable strain on the City's path to recovery as it struggles to emerge from receivership.

Appendix A
FDCVT Supplemental Answers

The City is in transition back to the Detroit Water and Sewerage Department as the source of water. This project comes at a cost of $2 million from the City's Water and Sewer Fund, an unanticipated expense. It is imperative that old pipes and water lines need to be addressed in order to arrive at a long term solution that will safeguard the public health, return public confidence in the Water System, resulting in a return to a sustainable Water and Sewer Fund. The City is the water provider, and as such, it has an obligation to provide clean and safe water for residents.

The Dupont Street Project is a catalytic endeavor that will begin the process of replacing old infrastructure and improve the quality of water.

Appendix B

Proposed Expenditures

of the

Financially Distressed Cities, Villages, and Townships Grant Application

Appendix B
FDCVT Explanation of Proposed Expenditures

Explanation of Proposed Expenditures

The following expenditures represent the estimated costs of the Dupont Street Water Main Project based on a previous bid for services in 2014 by DiPonio Contracting, Inc. It must be noted that these costs represent an estimation by the contractor that is considered to be adequate to cover the Contractor's profit and overhead for the project. These costs may be adjusted once work begins.

These items are essential for the successful implementation of the project, which include the removal and/or replacement of trees, sidewalk, driveways, areas of road, and parking lots as well as the excavation of the existing water main. Required items also include hydrant assemblies, connecting to the existing main, and equipment costs for traffic control.

Description	Estimated Quantity	Unit	Bid Unit Price	Bid Price
Mobilization	1	LSUM	$100,000.00	$ 100,000.00
Tree, Rem 19" to 36"	8	EA	$ 1,000.00	$ 8,000.00
Tree, rem 6" to 18"	14	EA	$ 550.00	$ 7,700.00
DR structure, Rem	24	EA	$ 300.00	$ 7,200.00
Sidewalk, Rem	2591	SYD	$ 5.00	$ 12,955.00
Pavement, Rem, Modified	7880	SYD	$ 13.00	$ 102,440.00
Erosion Contol, Inlet protection, fabric drop	95	EA	$ 125.00	$ 11,875.00
Dr Structure Cover, Adj, Case 1	38	EA	$ 610.00	$ 23,180.00
Dr Structure Cover, 48" dia	24	EA	$ 1,600.00	$ 38,400.00
Dr Structure Cover, Special	21	EA	$ 740.00	$ 15,540.00
Dr Structure Cover, Special	103	EA	$ 900.00	$ 92,700.00
Hand Patching	74	TON	$ 310.00	$ 22,940.00
HMA Pavement Repair, Commercial	622	TON	$ 214.00	$ 133,108.00
HMA Pavement Repair, Residential	1342	TON	$ 242.00	$ 324,764.00
Driveway, Nonreinf Conc, 6"	1019	SYD	$ 61.00	$ 62,159.00
Curb and Gutter, Conc, Det C4	4786	FT	$ 27.00	$ 129,222.00
Dectable Warning Surface, Modified	488	FT	$ 91.00	$ 44,408.00
Sidewalk Ramp, Conc, 7"	5376	SFT	$ 11.00	$ 59,136.00
Sidewalk, Conc, 4" Modified	17025	SFT	$ 5.85	$ 99,596.25
Sidewalk, Conc, 6" Modified	1473	SFT	$ 6.75	$ 9,942.75
Post, Steel, 3 lb	336	FT	$ 6.00	$ 2,016.00
Sign, Type III, Erect, Salv	24	EA	$ 50.00	$ 1,200.00
Sign, Type III, Rem	24	EA	$ 20.00	$ 480.00
Sign, Type IIIA	16	SFT	$ 18.00	$ 288.00
Pavt Mrkg, Ovly Cold Plastic, 6", Crosswalk	170	FT	$ 8.00	$ 1,360.00
Pavt Mrkg, Ovly Cold Plastic, 24", Stop Bar	30	FT	$ 15.00	$ 450.00
Pavt Mrkg, Waterborne, 4", White	160	FT	$ 6.00	$ 960.00
Maintaining Traffic	1	LSUM	$ 32,475.00	$ 32,475.00
Turf Establishment, Performance	1	LSUM	$ 25,000.00	$ 25,000.00
Water Shutoff, Adj, Case 1	1	EA	$ 370.00	$ 370.00
Rem WM	32	FT	$ 11.00	$ 352.00

Appendix B
FDCVT Explanation of Proposed Expenditures

Water Main, DI 12" TD G	157	FT	$ 139.00	$ 21,823.00
Water Main, DI, 24", TD G	8419	FT	$ 207.00	$ 1,742,733.00
Water Main, DI, 24", TD F	305	FT	$ 168.00	$ 51,240.00
Water Main, DI, 6", TD G	454	FT	$ 94.00	$ 42,676.00
Water Main, DI, 8" TD G	1551	FT	$ 116.00	$ 179,916.00
Abandon Gatewell	5	EA	$ 380.00	$ 1,900.00
BFV and Well, 24"	15	EA	$ 10,000.00	$ 150,000.00
Gate Valve and Box, 8"	43	EA	$ 1,500.00	$ 64,500.00
Hydrant Assembly	33	EA	$ 4,000.00	$ 132,000.00
Rem Gatewell	44	EA	$ 383.00	$ 16,852.00
Rem Hyd Assembly	17	EA	$ 550.00	$ 9,350.00
Temp, Blowoff	37	EA	$ 500.00	$ 18,500.00
Gate Valve and Well, 8"	3	EA	$ 2,700.00	$ 8,100.00
Gate Valve and Well, 12"	4	EA	$ 4,700.00	$ 18,800.00
Gate Valve Box, Adj	1	EA	$ 165.00	$ 165.00
Connect to Existing Water Main	83	EA	$ 1,000.00	$ 83,000.00
Pressure testing	1	LSUM	$ 5,000.00	$ 5,000.00
Flowable Fill	993	CYD	$ 65.00	$ 64,545.00
Audio Visual Filming	1	LSUM	$ 3,950.00	$ 3,950.00
Total of All Unit Price Bid Items				$3,985,267.00

Appendix C

Estimated Savings

of the

Financially Distressed Cities, Villages, and Townships Grant Application

Appendix C
FDCVT Cost Savings Calculation

Short Term Savings

Another area of short term savings is considering the decline in water main breaks with an upgraded transmission line. In the past five years, there have been approximately twenty water main breaks in the area of the proposed work. Main breaks have cost the City between $5,000 and $10,000 each to repair. This has amounted to $100,000 to $200,000 in water main repair costs in just that area alone. On average we can expect a savings of $40,000 in the first year alone ($200,000/5 years = $40,000 per year)

Long Term Savings

The ultimate long term benefits of the project are concerned with providing reliable, clean, and safe drinking water for Flint water customers. This area suffers from poor water quality due to longer retention times as a result of inhibited flow. Resolving this is essential to regain public confidence in City provided utilities, which affect bill collections and the overall fiscal health of the Water and Sewer Fund. Addressing antiquated infrastructure is a necessary step to secure public health.

Other savings of this project include the elimination of leaks by replacing the line. Roughly one-third of the water that the City will be purchasing from Detroit will be lost due to leakage from an extremely antiquated system, the use of water when addressing incidents of arson, and water theft or waste from scrapping. Considering that water from DWSD will cost an estimated $1.5 million per month, $500,000 worth of water that is purchased will never be billed every month. That amounts to $6 million per year and $30,000,000 per year if the pattern to repair these aging lines continues through completion. This is a significant waste. Replacing the Dupont Water Main is an essential step in mitigating this loss.

Appendix D

Evidence of Financial Distress:
Deficit Elimination Plan

for the

Financially Distressed Cities, Villages, and Townships Grant Application

EMERGENCY MANAGER
CITY OF FLINT
GENESEE COUNTY MICHIGAN

ORDER No. 18

ADOPTION OF THE DEFICIT ELIMINATION/RESERVE ACCUMULATION PLAN

BY THE POWER AND AUTHORITY VESTED IN THE EMERGENCY MANAGER ("EMERGENCY MANAGER") FOR THE CITY OF FLINT, MICHIGAN ("CITY") PURSUANT TO MICHIGAN'S PUBLIC ACT 436 OF 2012, LOCAL FINANCIAL STABILITY AND CHOICE ACT, ("PA 436"); DARNELL EARLEY, THE EMERGENCY MANAGER, ISSUES THE FOLLOWING ORDER:

Pursuant to PA 436, the Emergency Manager has broad powers in receivership to rectify the financial emergency and to assure the fiscal accountability of the City and its capacity to provide or cause to be provided necessary services essential to the public health, safety and welfare; and

Pursuant to PA 436, the Emergency Manager acts in place of local officials, specifically the Mayor and City Council, unless the Emergency Manager delegates specific authority; and

Pursuant to PA 436, the Emergency Manager shall develop and may amend a written financial and operating plan for the City, which shall have the objectives of assuring that the City is able to provide or cause to be provided governmental services essential to the public health, safety and welfare and assuring the fiscal accountability of the local government; and

Pursuant to PA 436, an Emergency manager may require and approve or disapprove, or amend or revise, a plan for paying all outstanding obligations of the local government; and

The FY13 Financial Statements for the City of Flint for FY13 disclosed a $12,895,642 General Fund deficit. Most of this deficit arises from various inter-fund borrowings in the form of cash advances to the General Fund from other funds, implemented over the past several years. The deficit has been significantly reduced from the FY12 deficit of $19.2 million.

advances to the General Fund from other funds, implemented over the past several years. The deficit has been significantly reduced from the FY12 deficit of $19.2 million.

This Order further reduces the deficit in FY14 and authorizes actions in subsequent years to eliminate the deficit. This Order is based on the commitment that in future years, expenses in the General Fund will not exceed revenues, thus assuring that the deficit will reduce, not grow.

This Order also recognizes that achieving long term financial solvency requires not only the elimination of deficits but the accumulation of financial reserves at an adequate level.

This Order recognizes reductions made or projected for this year and authorizes and directs additional steps to eliminate the deficit and to establish an appropriate level of reserves as necessary for sustainable financial solvency:

- It is projected that the $12,895,642 General Fund deficit as of the end of FY13 will be reduced by $2,702,097 to $10,195,342 at the end of FY14, as a result of revenues exceeding expenses.

- The General Fund debts to Fund 636 (Information Technology) and Fund 542 (Building Safety) in the total amount of $393,545 will be discharged before the end of FY14, thus further reducing the deficit to $9,800,000. Discharging these debts will not compromise the financial solvency of these funds.

- $800,000 will be transferred from the Capital Improvements Fund to the Sewer Fund, and the General Fund debt to the Sewer Fund will be discharged in a like amount, thus reducing the General Fund deficit at the end of FY14 to $9,000,000.

Continuing in the FY15 budget and future years, until the remaining accumulated deficit is eliminated, expenses will be budgeted at $1 million less than revenues, thus providing for additional deficit reduction. Additionally, $800,000 annually will be appropriated from the Public Improvement Fund for capital improvement funding in Fund 590 (Sewer Fund) in lieu of repayment of cash advances from Fund 590. Using these funds, deficit reduction will continue as follows:

- FY15: $9,000,000 reduced to $7,200,000
- FY16: $7,200,000 reduced to $5,400,000
- FY17: $5,400,000 reduced to $3,600,000
- FY18: $3,600,000 reduced to $1,800,000
- FY19: $1,800,000 reduced to $ -0-

Beginning in FY20, or sooner should the deficit be eliminated sooner, expenses in the General Fund will continue to be annually budgeted at a maximum of $1 million less than General Fund revenues, and expenses in the Public Improvement Fund shall continue to be budgeted at a maximum of $800,000 less than Public Improvement Fund revenues. This shall continue until, at a minimum, the accumulation of funds reach 15% of General Fund revenues. The goal is to have and maintain financial reserves equal to or exceeding 15% of General Fund revenues at any time.

These steps are to be viewed as the minimum actions to be taken with respect to eliminating the deficit and accumulating adequate financial reserves. It is recognized that accomplishing these goals as quickly as possible is desirable.

Pursuant to Act 436, section 12(1), I hereby order that the General Fund debt associated with the cash advances to Funds 636, and 542 in the amounts of $500,000 and $110,000 respectively, are hereby discharged.

I further order that the General Fund debt associated with the cash advance to Fund 591 in the amount of $1,000,000 will be repaid at the end of FY14 with the surplus of General Fund revenues over expenses budgeted for deficit reduction and that $800,000 will be appropriated from Fund 402 to Fund 590 for capital improvements, and that the General Fund debt associated with the cash advance from Fund 590 is hereby reduced by $800,000.

I further order that the General Fund debt associated with the cash advances to Fund 590 remaining after FY14 will be repaid in the amount of $1 million annually for each of the years FY15 through FY19 from the General Fund. Additionally, for the same period, there shall be an annual appropriation from the Public Improvement Fund in the amount of $800,000 to be used for capital improvements, and the General Fund debt associated with the cash advance from Fund 590 shall be reduced in a corresponding manner.

I further order that once the deficit is eliminated, expenses in the General Fund shall continue to be annually budgeted at a maximum of $1 million less than General Fund revenues, and expenses in the Public Improvement Fund shall continue to be budgeted at a maximum of $800,000 less than Public Improvement Fund revenues until such time as the accumulation of funds from these actions reach, at a minimum 15% of General Fund revenues. The goal is to have and maintain financial reserves equal to or exceeding 15% of General Fund revenues at any time. Some portion of the funds accumulated by this action may be transferred to the City's Budget Stabilization Fund, with no less than an amount equal to 5% of General Fund revenues remaining in the General Fund.

I further order that the attached Deficit Elimination Plan is hereby adopted on behalf of the City of Flint. The Finance Director is authorized to take such actions and accounting measures as necessary to implement this order.

The above stated orders are effective immediately.

This Order may be amended, modified, repealed or terminated by any subsequent Order issued by the Emergency Manager.

Dated: 7-15-14

By: Darnell Earley

Darnell Earley, ICMA-CM, MPA
Emergency Manager
City of Flint

xc: State of Michigan Department of Treasury
Mayor Dayne Walling
Flint City Council
Inez Brown, City Clerk

S:\P. Bade\EM2014\Orders\Order.No.18.Adoption of Deficit Elimination Plan 06.11.14.doc

City of Flint Deficit Reduction and Reserve Accumulation Plan

		Reductions	Annual Reduction	Remaining Deficit
FY13	ACCUMULATED DEFICIT 6/30/2013			$12,895,642
FY14				
	General Fund Revenues over Expenses	-$2,702,097		
	Fund 542 debt discharged	-$110,000		
	Fund 636 debt discharged	-$283,545		
	Fund 590 appropriated $ from CIP Fund; Fund 590 debt discharged by like amount	-$800,000	-$3,895,642	$9,000,000
FY15	Fund 590 partially repaid from FY15 surplus	-$1,000,000		
	Fund 590 appropriated $ from CIP Fund	-$800,000		
	(Fund 590 debt reduced by $1,800,000)		-$1,800,000	$7,200,000
FY16	Fund 590 partially repaid from FY16 surplus	-$1,000,000		
	Fund 590 appropriated $ from CIP Fund	-$800,000		
	(Fund 590 debt reduced by $1,800,000)		-$1,800,000	$5,400,000
FY17	Fund 590 partially repaid from FY17 surplus	-$1,000,000		
	Fund 590 appropriated $ from CIP Fund	-$800,000		
	(Fund 590 debt reduced by $1,800,000)		-$1,800,000	$3,600,000
FY18	Fund 590 partially repaid from FY18 surplus	-$1,000,000		
	Fund 590 appropriated $ from CIP Fund	-$800,000		
	(Fund 590 debt reduced by $1,800,000)		-$1,800,000	$1,800,000
FY19	Fund 590 partially repaid from FY19 surplus	-$1,000,000		
	Fund 590 appropriated $ from CIP Fund	-$800,000		
	(Fund 590 debt reduced to $-0-)		-$1,800,000	$0

		Additions to Reserves	Annual Total	Cumulative Total
FY20	Fund 101 Revenues commited to Reserves	$1,000,000		
	Fund 402 Revenues commited to Reserves	$800,000		
	Total commited to reserves		$1,800,000	$1,800,000
FY21	Fund 101 Revenues commited to Reserves	$1,000,000		
	Fund 402 Revenues commited to Reserves	$800,000		
	Total commited to reserves		$1,800,000	$3,600,000
FY22	Fund 101 Revenues commited to Reserves	$1,000,000		
	Fund 402 Revenues commited to Reserves	$800,000		
	Total commited to reserves		$1,800,000	$5,400,000
FY23	Fund 101 Revenues commited to Reserves	$1,000,000		
	Fund 402 Revenues commited to Reserves	$800,000		
	Total commited to reserves		$1,800,000	$7,200,000
FY24	Fund 101 Revenues commited to Reserves	$1,000,000		
	Fund 402 Revenues commited to Reserves	$800,000		
	Total commited to reserves		$1,800,000	$9,000,000

** In General Fund, Budget Stabilization Fund, and Public Improvement Fund*

Appendix E

Evidence of Financial Distress:
Emergency Manager Exit Letter

for the

Financially Distressed Cities, Villages, and Townships Grant Application

CITY OF FLINT

OFFICE OF THE EMERGENCY MANAGER

Gerald Ambrose
Emergency Manager

April 28, 2015

Honorable Rick Snyder
Governor of Michigan
111 South Capitol Avenue
Lansing, MI 48909

Dear Governor Snyder:

The City of Flint has been in a state of receivership since your declaration of a financial emergency in November 2011. Since that time a number of substantial changes have been implemented and I feel that the financial emergency has been sufficiently addressed. I feel it is appropriate to relinquish my position as Emergency Manager (EM) at this time.

As you are aware, I was appointed Emergency Manager on January 13, 2015, under the authority of PA 436 of 2012. I am the fourth EM to serve the City of Flint; my predecessors were Michael K. Brown (PA 4 and PA 436), Edward Kurtz (PA 72 and PA 436) and Darnell Earley (PA 436). Each EM took major steps toward rectifying the financial emergency. These steps included implementing budgetary and financial best practices, restructuring the City departmental organization, implementing new means and levels of service provision, and preparing the City for long term stability.

Addressing the Financial Emergency:

At the time of placement into state receivership, the City of Flint was a city in financial crisis, characterized by accumulated deficits in the General Fund and Water Fund, marginal cash flow, and unsustainable legacy costs. At the conclusion of FY12, the fiscal year in which an Emergency Manager was appointed, the City's General Fund deficit stood at $19.1 million; its Water Fund had a deficit of $8.8 million; and cash flow was $13 million, or less than one month's expenses. Unfunded OPEB liabilities were more that $850 million.

Addressing these issues and putting Flint back onto a path to sustain financial solvency has been difficult for taxpayers, employees, retirees, and those utilizing city services. Taxes and fees have been raised, including a voter approved six mill special levy for police and fire; a special assessment for street lighting; waste collection was changed to a fee for service from a millage rate; and increases in utility rates to among the highest in the state. Services have been reduced to marginal levels (including public

safety), as the workforce and employee compensation has shrunk by more than 20%. And, retirees have seen their cost of retiree health care increase.

As a result, much progress has been made:

- The deficits in the General Fund and Water Fund have been addressed. The Water Fund is now solvent, although not at the level indicated as adequate; and the remaining $7 million General Fund deficit will be eliminated by June 30, 2015, with a loan authorized by the Emergency Loan Board. City wide cash flow is now more than $67 million.
- New ordinances addressing the achievement and maintenance of financial sustainability have been enacted by the City Council, with support of the Mayor. These ordinances include the requirement for creation and maintenance of a strategic plan; requirement for creation and maintenance of a biennial budget and five year financial projections; establishment of a fund balance reserve, including establishment of a budget stabilization fund; establishment of a requirement to begin funding of OPEB liabilities; and an update of the City's purchasing ordinance.
- Long term liability costs have been reduced significantly. $850 million in OPEB liabilities have been reduced to $240 million, and new employees are given a contribution towards future health care costs at retirement instead of the promise of retiree health care. Current retirees now pay a significant amount towards their health care. Multipliers for remaining employees in defined benefit programs have been reduced, and new employees are enrolled in a hybrid pension plan, which has less long term liability for the City. The Flint Employees Retirement System has been dissolved, with pension administration now handled by the Municipal Employees Retirement System.
- The structure of the City organization has been changed significantly. A new City Administrator has been hired, selected on the basis of professional expertise, and with expanded control over daily activities of the City. The workforce has been reduced by more than 20%, and City operations have been reorganized into four program areas. Waste collection and demolition is no longer being done internally, 911 operations will be transferred to the County effective July 1, 2015, and the City-funded 68th District Court is expected to become part of the County- funded 67th District Court in January, 2016. The purchase of water is now planned to come from the Karegondi Water Authority instead of the Detroit Water and Sewerage Department. Collective bargaining contracts have also been revised; increasing flexibility for management and setting the stage for permanent reductions in legacy costs. Partnerships have been established to improve the level of parks maintenance. Senior Centers are now run by independent non-profit organizations, with reduced assistance from the City; and the City golf courses have been leased to private operators.
- The City has put into place a plan for long term stabilization and future development. A new Master Plan (the first since the 1960's) has been adopted, a new Capital Improvement Plan has been completed, and a new framework for a Blight Elimination Plan has been developed. A new zoning ordinance is well on its way to completion. Each of these major planning pieces significantly engaged members of the community and the final products were approved by the Flint City Council, with the support of the Mayor.

- A Blue Ribbon Committee on Governance was established by EM Earley in 2014. The committee recommended a number of Charter revisions and recommended the election of a Charter Review Committee. In November 2014 the voters in Flint approved several revisions to the current Charter and also approved establishing a Charter Review Commission, the members of which will be elected in May 2015. The Commission will consider whether to maintain the current Strong Mayor form of governance or to propose a new Council-Manager format.
- A formal assessment of the values of both Hurley Hospital and the City's utility system have been completed; and concluded that no change in ownership status would be beneficial at this time.

Continuing Challenges:

Significant work has been accomplished to resolve the conditions which put the City of Flint into State receivership. However, there also still exist several major challenges which will require continued work on the part of the City leaders:

- Retiree health care continues to be a significant concern as the City still faces a federal lawsuit over its decision to change (but not eliminate) health care for current retirees. While the City is currently operating under a judge's order which allows modification of the City's historical level of health care for retirees, a loss could have an impact of more than $5 million annually.
- The five year revenue projections still identify a structural deficit. Annual costs for wages and fringes will continue to rise at an approximate 2.4% rate. There is not a comparable increase in projected revenue, which is closer to 1%. While it may be possible to continue the low level of services that Flint now provides for a short while, even that level will be in jeopardy without a long term sustainable new source of revenue. The low level of services that Flint currently provides is not at the level which will help the City to become an attractive place to live, work, study, and play.
- Aging water and sewer systems designed to serve twice as many customers as the number now using the systems have resulted in water and sewer rates that are among the highest in the state. This is another factor impeding the City's ability to attract and retain businesses and residents. There needs to be a concerted effort to reduce rates by as much as 50%, but that cannot even be contemplated without the commitment of financial assistance from the state and federal governments. While the decision to join with Genesee County in the creation of the KWA will result in costs for purchasing water increasing at a rate less than historically paid to the previous supplier, it will not be sufficient to lower costs.
- Continuing voter support for special millages financing public safety is a concern. In 2012 voters approved a 6 mill property tax levy for police and fire, bringing Flint's total level to within 1 mill of its maximum 20 mill limit. This millage, plus one for 2 mills approved some time ago, are expiring in 2017, and without renewal, the resulting level of public safety services, even with the current level of greatly appreciated State Police support, would be unworkable. This was recently confirmed by an evaluation of the organization and staffing for both the Police and Fire departments. The evaluations found both departments are understaffed, but the understaffing situation is significantly more acute in the Police Department, where it was noted that comparable cities have on average 100 more officers on the street than Flint does.

- Equally important to providing State support in the form of Michigan State Police has been the financial commitment by the State to fund the City's lock up at a cost of more than $2.5 million annually – without which there would be no lock-up. Both FPD and MSP have noted that the opening of the City's 72-hour lock-up has been a key component in the reduction in crime.

Emergency Manager's Recommendation:

Section 22(1) of P.A. 436 of 2012, the Local Financial Stability and Choice Act, provides that if the Emergency Manager determines that the financial emergency has been rectified, he or she is required to inform you and the State Treasurer. Based on the examples presented above, I am prepared to say that I have determined the financial emergency in the City of Flint has been rectified. In addition, as required by Section 21(1) of the Act, a two-year budget has been implemented and all bargaining unit contracts have been settled.

Although the financial emergency has been resolved, I recommend the appointment of a Receivership Transition Advisory Board (RTAB) as allowed by Section 23 of the Act. I believe it is critical that the RTAB oversee and provide guidance to the City as they address the continuing challenges facing the City of Flint and complete transition back to full local control.

The path to sustainable financial solvency for the City of Flint will be very difficult, but doable. The new financial policies and practices, and the new organizational structure, are designed to assist City leaders in achieving this goal. Achieving the goal will allow City leaders to become a positive force in leading the City to become an attractive place to live, work, study, and play. I applaud the efforts of the Mayor and Council members who have worked actively and positively to effectuate these changes and are committed to carrying them into the future.

If, however, the new policies, practices, and organizational changes are ignored in favor of returning to the historic ways of doing business, it is not likely the City will succeed over the long term. The focus of City leaders will then likely once again return to confronting financial insolvency.

I have greatly appreciated the opportunity to have been of service to the City of Flint and to the State of Michigan.

Sincerely,

Gerald Ambrose
Emergency Manager
City of Flint

Cc: Nick A. Khouri, State Treasurer

Appendix C
FDCVT Cost Savings Calculation

Short Term Savings

Another area of short term savings is considering the decline in water main breaks with an upgraded transmission line. In the past five years, there have been approximately twenty water main breaks in the area of the proposed work. Main breaks have cost the City between $5,000 and $10,000 each to repair. This has amounted to $100,000 to $200,000 in water main repair costs in just that area alone. On average we can expect a savings of $40,000 in the first year alone ($200,000/5 years = $40,000 per year)

Long Term Savings

The ultimate long term benefits of the project are concerned with providing reliable, clean, and safe drinking water for Flint water customers. This area suffers from poor water quality due to longer retention times as a result of inhibited flow. Resolving this is essential to regain public confidence in City provided utilities, which affect bill collections and the overall fiscal health of the Water and Sewer Fund. Addressing antiquated infrastructure is a necessary step to secure public health.

Other savings of this project include the elimination of leaks by replacing the line. Roughly one-third of the water that the City will be purchasing from Detroit will be lost due to leakage from an extremely antiquated system, the use of water when addressing incidents of arson, and water theft or waste from scrapping. Considering that water from DWSD will cost an estimated $1.5 million per month, $500,000 worth of water that is purchased will never be billed every month. That amounts to $6 million per year and $30,000,000 per year if the pattern to repair these aging lines continues through completion. This is a significant waste. Replacing the Dupont Water Main is an essential step in mitigating this loss.

Kolka, Carolyn (Treasury)

From: Sean Kammer <skammer@cityofflint.com>
Sent: Thursday, October 15, 2015 4:56 PM
To: TreasRevenueSharing
Subject: FDCVT Grant Application City of Flint
Attachments: City of Flint FDCVT Grant Dupont Street.PDF

To whom it may concern,

Please find attached an application for the Financially Distressed Cities, Villages, and Townships Grant for the City of Flint. The request is to fund the Dupont Water Main Replacement Project.

Thank you,

Sean Kammer

--
Sean Kenneth Kammer, MPA
Assistant to the City Administrator
City of Flint, Michigan
1101 S. Saginaw St.
Flint, MI 48502
810-237-2025

From: Armstrong, Anne (GOV)
Sent: Wednesday, October 28, 2015 10:18 AM
To: Hollins, Harvey (GOV); Clayton, Stacie (GOV); Haan, Andrew (GOV)
Subject: Schools and water testing update

Hello All,
I spoke with Madhu Anderson, Senior Policy Director for DEQ on the outreach to urban schools on water testing. I wanted to understand what DEQ's process was before we started canvassing, in case questions arose. George Krisztian, DEQ Lab Director and head of the Flint Action Response Team, suggested if possible that we hold off until they have a process and protocols in place on working with schools outside of the 13 Flint schools. They are working as quickly as possible with these 13 to establish some kind of response capability and backgrounder for all schools. They know, as we do, that this is most likely a statewide issue. Harvey, do you feel comfortable holding up on the calls to systems?
Anne

Anne Armstrong Cusack
Associate Director
Governor's Office of Urban Initiatives
350 Ottawa NE
Grand Rapids, MI 49503
Cell: PPI
armstronga2@michigan.gov

From: Armstrong, Anne (GOV)
Sent: Wednesday, October 28, 2015 11:35 AM
To: Hollins, Harvey (GOV)
Cc: Clayton, Stacie (GOV); Haan, Andrew (GOV)
Subject: RE: Schools and water testing update

Hello All,
Harvey I was informed of the testing in Muskegon and G.R. We have a number of other urban districts as well: Godwin, Godfrey Lee, Muskegon Heights, etc. Would you like me to move forward on this as well?
Anne

From: Hollins, Harvey (GOV)
Sent: Wednesday, October 28, 2015 10:44 AM
To: Armstrong, Anne (GOV) <ArmstrongA2@michigan.gov>
Cc: Clayton, Stacie (GOV) <claytons3@michigan.gov>; Haan, Andrew (GOV) <HaanA2@michigan.gov>
Subject: Re: Schools and water testing update

Anne,
Your area is moving forward with schools testing water ahead of DEQ protocols. Grand Rapids is currently doing this and I'm told Muskegon will follow suit. I don't know what Holland is doing. http://michiganradio.org/post/grand-rapids-public-schools-test-drinking-water-lead

Andrew, I need you to call call Benton Harbor, Kalamazoo and Battle Creek's superintendents and ask if they are planning water testing in their schools. If so, send send an email to DEQ Director Dan Wyant and copy me, Dennis Muchmore and Jarrod Agen. If not, don't worry about the communication.

Bay City, Pontiac and Saginaw schools are moving forward. While DEQ is working on their protocols, a number of schools are moving forward with testing. I want the Governor informed about the activity.

Remember, this is simply an inquiry to testing activity in urban districts.

Best,
Harvey

On Oct 28, 2015, at 10:17 AM, Armstrong, Anne (GOV) <ArmstrongA2@michigan.gov> wrote:

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>
> Anne Armstrong Cusack
> Associate Director

Governor's Office of Urban Initiatives
350 Ottawa NE
Grand Rapids, MI 49503
Cell: PPI
armstronga2@michigan.gov

From: Haan, Andrew (GOV)
Sent: Wednesday, October 28, 2015 3:45 PM
To: Hollins, Harvey (GOV); Armstrong, Anne (GOV)
Cc: Clayton, Stacie (GOV)
Subject: RE: Schools and water testing update

Harvey,
I'm still awaiting responses to outreach at Benton Harbor and Kalamazoo. I spoke with the interim superintendent at Battle Creek Public, and she noted that there were no plans in place as of today to test the schools' water, but would be getting back to me based on the call.

I will keep you updated as information emerges.

Thanks,
Andrew

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Sent: Wednesday, October 28, 2015 10:44 AM
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Anne Armstrong Cusack
Associate Director
Governor's Office of Urban Initiatives
350 Ottawa NE
Grand Rapids, MI 49503
Cell: PPI
armstronga2@michigan.gov

From: Armstrong, Anne (GOV)
Sent: Friday, October 30, 2015 11:46 AM
To: Hollins, Harvey (GOV); Haan, Andrew (GOV)
Cc: Clayton, Stacie (GOV)
Subject: RE: Schools and water testing update

Hello All,
Holland has just completed a large bond infrastructure project. I have two calls into them, but my guess is they will not be testing.
Godwin Heights – get their water from Wyoming. No plans to test
Muskegon Heights – no plans to test.
Calls still out to Godfrey Lee.
Anne

From: Hollins, Harvey (GOV)
Sent: Wednesday, October 28, 2015 8:59 PM
To: Haan, Andrew (GOV) <HaanA2@michigan.gov>
Cc: Armstrong, Anne (GOV) <ArmstrongA2@michigan.gov>; Clayton, Stacie (GOV) <claytons3@michigan.gov>
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>
> Anne Armstrong Cusack
> Associate Director
> Governor's Office of Urban Initiatives
> 350 Ottawa NE
> Grand Rapids, MI 49503
> Cell: PPI
> armstronga2@michigan.gov

From: Murray, David (GOV)
Sent: Thursday, November 05, 2015 4:14 PM
To: Hollins, Harvey (GOV)
Subject: radio story

http://michiganradio.org/post/expert-says-michigan-officials-changed-flint-lead-report-avoid-federal-action#stream/0

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

From: Clayton, Stacie (GOV)
Sent: Thursday, November 12, 2015 5:19 PM
To: Hollins, Harvey (GOV)
Subject: FW: Flint office of Urban and Metropolitan Initiatives
Attachments: Michigan FY 2013-14 Urban Agenda Projects.pdf

Harvey,

Please let me know how you would like to respond? While we may not have specific "projects," our office has played a vital role in:

1) the water issue
2) expansion of AMUS to Flint
3) demolition money
4) transition from an EM
5) the public safety forum

Stacie

From: Sweeney, Matthew (DTMB)
Sent: Thursday, November 12, 2015 5:10 PM
To: Clayton, Stacie (GOV) <claytons3@michigan.gov>
Subject: FW: Flint office of Urban and Metropolitan Initiatives

Stacie, is there anything I can provide Rep. Faris detailing what projects OUMI has undertaken with the City of Flint? I know there is no longer an office there, but perhaps something we can point to in recent months or years?

Matt

From: Steven Peruski [mailto:SPeruski@house.mi.gov]
Sent: Thursday, November 12, 2015 3:41 PM
To: Sweeney, Matthew (DTMB)
Subject: Flint office of Urban and Metropolitan Initiatives

Matt,

My boss is trying to find out, "what was done and dollars spent at the Flint office of Urban and Metropolitan Initiatives." We were sent an agenda for FY 2013-14 (attached), but it does not contain much financial information or details of actual activity completed in Flint.
Do you have or can you get information that will answer my boss' questions?

Thanks,
Steve

Steven Peruski
Chief of Staff
Representative Pam Faris

517-373-7557

MICHIGAN FY 2013-14 URBAN AGENDA

Office of Urban and Metropolitan Initiatives

"An urban agenda is an action-oriented strategic plan for economic and community development designed to align public and private resources and create policies to make urban cities where people want to work, live and play."

--Michigan Urban Agenda Advisory Team 2012

"Michigan cities must become a destination for employment and quality of life for the purpose of retaining and attracting residents by encouraging the entrepreneurial spirit, growing and retaining human and intellectual capital, and focusing on vibrant urban cores".

--Michigan Urban Agenda Advisory Team 2013

Updated April 2014

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BACKGROUND

During the first two quarters of 2013, the Office of Urban and Metropolitan Initiatives summarized and completed the reference document that serves as a guide to the urban agenda for the state. The implementation and adjustment of projects and policies against the indicators outlined in the reference document was designed to create the "Michigan Urban Agenda". We propose that the Governor announces annually several projects and/or legislative initiatives that impact the primary indicators in the Urban Agenda Reference Document—e.g. the Michigan 2014 Urban Agenda.

Taking the Governor's strategy of Vision→ Engage → Adjust → Attack, the projects listed in this document are designed to be piloted in at least one city in the first year, adjusted and rolled out in other cities at a later point or subsequent year. For example, if the Governor approves and announces at least five initiatives each year over the next four years, and replicates each initiative in another city in the subsequent year, that would generate 35 initiatives of which at least one initiative would be active in all major urban centers by 2018.

OUMI's goal would be to propose at least twelve initiatives (or one initiative for each focus area) each year for the Governor. The following is our proposal for the Michigan 2014 Urban Agenda.

ENGAGED COMMUNITIES

Project Description

Support the Michigan Non-Profit Association's (MNA) "Engaged Communities (EC)" initiative designed to support and build effective civically engaged community models. The strategy is to leverage networks and deep community partnerships to create a comprehensive civic engagement program aimed toward communities across the state of Michigan and particularly in the targeted communities of Detroit, Kalamazoo and Flint.

EC is based on the following three key components: Advancing Collaboration; Supporting Lifelong Civic Engagement; and Deepening Capacity through Diversity and Inclusion.

Implementation

Goal 1: Build lasting connections between nonprofit organizations and other community stakeholders.

- Conduct and share community assessments and issue identification via facilitated conversations.
- Foster and support the formation of collaborations in communities to address specific community needs.
- Create a virtual space for communities to organize to address community needs in "real time".

Goal 2: Build and support civic engagement in communities

- Coordinate community partnerships and collaborations between community-based nonprofits and stakeholders in targeted communities.
- Convene community-based organizations to participate in quarterly engagement "boot camps" over the four-year project.
- Create a Civic Engagement blueprint and toolkit for community-based nonprofits to build and sustain a civic engagement plan.

Goal 3: Build nonprofit capacity through Diversity and Inclusion

- Conduct diversity and inclusion assessments for community –based organizations
- Provide diversity and inclusion awareness and training
- Create a common language and definition for Diversity and Inclusion to be adopted by the Michigan nonprofit sector.
- Create a diversity and inclusion blueprint and toolkit uniquely designed for the nonprofit sector.

Impacted Areas

- **Focus Areas:** Civic Engagement
- **Primary Indicator(s):** Number of Neighborhood Associations
- **Secondary Indicator(s):** Number of Opportunities/Access for residents of an area to volunteer or engage, a city's involvement with Civic Health Index (CHI) for ongoing measure and awareness
- **Lead Department(s):** DHS; however, all departments will engage
- **Geographic Area:** Detroit, Flint and Kalamazoo

FOOD INCUBATION ACCELERATOR PROJECT: Second Stage Incubation

Project description

As one of Michigan's largest industries, agriculture plays a huge role in the economic health of our state. In 2011, annual agricultural exports generated nearly $2.8 billion, and our agricultural diversity trails only California. One of the strongest growth sectors in this industry is in local food systems, small-scale farming, and cottage foods. Farmer's Markets and other entities have established a number of incubator kitchens across the state and an increasing number of entrepreneurs are launching food-based businesses. While many of these start-ups have met with success, far too many have struggled with how to get past the initial incubation stage and make the leap to their own facility. For many, the leap to taking on the purchase and build-out of their own facility is simply out of their range. These small-scale start-ups are often able to secure financing for equipment, but a build-out is not possible.

What is needed is an intermediary step between the typical rent by-the-hour incubator kitchen and a large facility. Eastern Market Corporation has studied the feasibility of creating a space where a number of flexible kitchens could be built out to minimal specifications by a central landlord and each individual space finished and equipped by the tenants. Unfortunately, this does not easily fit the current paradigm- banks have never financed a project like this and with no proof of concept are reluctant to loan on what is viewed as a risky proposition. Likewise, this does not easily fit the metrics of MEDC as job creation numbers are difficult to ascertain.

This project provides the opportunity to create jobs, accelerate one of Michigan's strongest growth sectors, and increase access to healthy food. It is anticipated that with successful execution, this project will provide proof of concept resulting in private sector support for similar efforts moving forward. Additionally, this project offers the opportunity to benefit both rural growers and urban entrepreneurs and their employees.

Implementation

1. Establish criteria for funding two $500,000 matching grants to catalyze construction of food incubation accelerators
2. Develop curriculum around accounting, merchandising, marketing, branding, inventory control, food safety etc. for grantees to provide to tenants
3. Launch and promote incentive
4. Measure participation and accelerator graduation rates

Impacted areas

- **Focus Areas:** Economic Development, Health
- **Primary Indicators:** Percentage of population employed, Public-private investment in contaminated/blighted/vacant land and buildings, Median household income, Percentage population that live and work in city
- **Secondary indicators:** Percentage of small-business start-ups in existence after five years**,** Percentage of SBA loans approved/denied
- **Lead Department:** MDARD, MEDC
- **Geographical Area:** Kalamazoo

Last Update: April 2014

HEALTHY CORNER STORE

Project Description

One of the key detriments to increasing density around our anchor institutions in Flint & Saginaw are the proliferation of small neighborhood convenience stores dedicated to selling and advertising beer, wine and liquor. A potential strategy to convert these businesses into neighborhood assets is The Healthy Corner Store Project currently being implemented by Detroit Fresh. The project is one that could show great benefits on a statewide level. The focus is coming in to help interested businesses introduce more fresh food choices into their regular inventory.

This model operates as a triage approach and works closely with local growers, marketing and store placement to ensure the intervention is a sound business decision as well as healthy neighborhood addition. Additionally policy could be introduced to impact the liquor board and making fresh produce a requirement for businesses located in geographically identified food deserts.

Food Policy Ordinance-Detroit, Neighborworks-Grand Rapids

Detroit Fresh: http://www.clas.wayne.edu/detroitfresh/

Implementation

1. Creation of a fresh food toolkit or playbook
2. Target businesses in key areas with limited access to fresh produce
3. Promote the program and incentives to business
4. Provide setup and implementation assistance
5. Track feedback and success

Impacted Areas

- **Focus Areas**: Economic Development, Health
- **Primary Indicator:** Percentage of residents within 1/4 mile of grocery with full scale produce department
- **Secondary Indicator:** State resources allocated locally to Economic Development programs/incentives
- **Lead Department:** MDARD
- **Geographic Area:** Flint

MUNICIPAL ASSESSMENT TOOL FOR LOCAL LIVE/BUY INITIATIVE

Project Description

The Midtown Anchor Strategy leverages the economic power of the Henry Ford Health Systems, Wayne State University and Detroit Medical Center to bring more residents, capital and business opportunity to the Corridor. A study by ***U3 Ventures*** found that the three institutions collectively employ nearly 30,000 people, enroll 32,000 undergraduate and graduate students annually, and control nearly 40% of the undeveloped real estate. The study also found that these anchors could potentially add up to 10,000 residents to the Midtown neighborhood, achieve 30 percent local procurement, and reach 35% local employment over the next 10 years. As a result, the anchors launched the Live Midtown and Buy Detroit strategies (**Live/Buy Initiative**)

Early success in working toward these goals is being achieved through ***Live Midtown***, a residential living program designed to entice employees of the three anchors to live and invest in a Midtown neighborhood. The program offers incentives to attract new homeowners and renters, as well as to retain current homeowners and renters in the neighborhood. Launched in 2011, the program has already closed on 197 applications yielding 19 new homeowners, 100 lease renewals and 76 new renters. Live Midtown's success has inspired other Detroit-based employers to use the same platform to incentivize their employees to move to the City. On July 25, 2011, five downtown Detroit employers announced the launch of a $5 million program—which uses the same incentive structure as Live Midtown—to attract their employees to become residents of six targeted Detroit neighborhoods. The program, called Live Downtown will also be managed by Midtown Detroit, Inc. and will be open to the 16,000 employees of DTE Energy, Compuware, Quicken Loans, Blue Cross Blue Shield of Michigan and Strategic Staffing Solutions.

The ***Buy Detroit strategy*** aims to increase the volume of institutional procurement from Detroit based businesses through three core approaches: 1) identifying potential Detroit based vendors through a **commodity** based approach; 2) working with DEGC on the development of a Detroit based business **repository**; and 3) business **technical assistance**, retention, and attraction. The Detroit Medical Center, Henry Ford Health System and Wayne State University are bolstering efforts to buy goods and services from Detroit businesses instead of out-of-state or out-of-area vendors. The strategy has generated millions of dollars for local businesses, helping them to grow and hire. Combined, the DMC, Henry Ford Health and Wayne State spend $1.6 billion a year on everything from dinner rolls to janitorial supplies, but less than 10 percent was spent in Detroit. In 2011, the three institutions redirected nearly $400,000 in purchases to Detroit businesses. In 2012, the buy local strategy redirected $16 million to local businesses.

The objective is to development web-based assessment tool for communities to determine whether they are able to successful launch a Live/Buy initiative. In 2012, OUMI worked with MSHDA to fund a study of eight Michigan cities (Battle Creek, Flint, Saginaw, Muskegon, Lansing, Jackson, Battle Creek, Kalamazoo, and Benton Harbor) to determine their readiness to launch a Live/Buy initiative. The study determined four cities (Flint, Kalamazoo, Jackson, and Saginaw) were ready to launch a Live/Buy initiative that would produce economic impact beneficial to city growth. The U3 Venture study cost $100,000 and revealed efficiencies for state to engage all cities while limiting the number who would qualify for a deeper study like U3 Ventures, and other tools such as targeted market analysis.

Implementation

- Conduct study on eight Michigan cities (completed 3/13).
- MSHDA and DEQ's Office of Great Lakes will complete the web-based assessment tool by 2nd quarter of 2014)

Impacted Areas

- **Focus Areas:** Economic Development, Talent Attraction and Placemaking
- **Primary Indicator(s):** Percentage population that live and work in the city; Investment in downtown and neighborhood building areas (including new construction, historic and infill projects); and Percentage of population holds a post-secondary degree or certificate.
- **Secondary Indicator(s):** Investment in neighborhoods; Quality housing , Walk Score
- **Lead Department(s):** MSHDA (PMDC)
- **Geographic Area:** Battle Creek, Benton Harbor, Lansing and Muskegon

MUNICIPAL FINANCE SYSTEM REVIEW

Project Description

As cities begin to progress through state receivership under PA 436 the opportunity exists for local government to request for a transition advisory board, to assist in returning control to locally elected officials. This presents a great opportunity for the State to position itself as a strong advocate for the future health of cities. The proposed project would be the creation of a formal process for cities to actively participate in revitalizing their financial structure. Upon the request of the local government the state would convene a formal review mirroring that of the initial emergency management board review. The result of this review would be an assessment of current conditions, key changes that had occurred and necessary benchmarks yet to be attained. In addition to the current state of city finances an impact analysis of structural changes key for future governance will be conducted. Here, local authorities are placed with tangible goals to accomplish such as changes in: city charter, operations, organizational structure and others. The ultimate result of implementing this approach will be a transparent process that creates the groundwork for an active partnership in city management between city and state.

Implementation

To be implemented over 18 months by the OUMI-Associate Directors. A key group of stakeholders and professional experts will be established to provide a substantive state strategy that addresses issues of revenue, legacy costs, tax expenditures, bankruptcy, municipal incorporation and many others. The project time frame for planning and idea creation is approximately one year. During this year OUMI will lead and direct this group. At the conclusion, key directives (statutory, legislative & department policies) will be presented and from their Treasury will serve as the key department with tracking implementation.

Impacted Areas

- **Focus Area**: Municipal Services
- **Primary Indicator:** Unrestricted general fund balance is stable or increasing over a 5-year period
- **Lead Department:** Treasury
- **Geographic Area:** Statewide

NEIGHBORHOOD STABILIZATION SCHOOL ANCHOR PROJECT (NSSA)

Project Description

Traditionally, if you answer yes to the following questions, you have an anchor institution: 1) does it have a large stake and an important presence in your city and community; 2) Does it have economic impacts on employment, revenue gathering, & spending patterns; 3) Does it consume sizeable amounts of land; 4) Does it have crucial relatively fixed assets and you are not likely to relocate; 5) Is it a job generator; 6) Does it attract businesses and highly skilled individuals; 7) Is it one of the largest employers, providing multilevel employment possibilities; 8) Is it a center of culture, learning and innovation with enormous human resources? Traditionally, anchors have been describe and big organizations such as a corporation, hospital or university.

A new framework for anchor work is emerging. One part of the framework is that very few anchors have the power to make change happen on their own. Instead, to achieve significant impact in communities, anchor institutions must partner with each other and with other types of organizations. Second, anchors must move beyond projects to make strategies a core part of their business operations in areas like procurement, place-making and personnel. And third, anchor strategies must engage communities as full partners in developing and implementing change efforts.

Many of the challenges that urban communities face manifest themselves in residential areas seen through high crime, poor educational opportunities, lack of employment, high foreclosures and blight. At issue question is whether it possible to build strategy around non-traditional anchors in neighborhoods such as: schools, faith based institutions and small business?

The Neighborhood Stabilization/School Anchor (NSSA) initiative focuses many strands of community involvement and neighborhood investment around a common goal of enhancing the quality of life around schools in four key areas: public safety (AmeriCorps Urban Safety), lighting, demolition and additional services in the school (e.g. Pathways to Potential). The NSSA Initiative establishes a defined area of a neighborhood with a school at its nucleus (currently a half-mile radius around the school). Efforts around the school differs in scope and form in each neighborhood, depending on the community's need, but will begin with a collection and analysis of data and demographics from: the school system, the city's planning and development department (or the equivalent of such), land banks (the Michigan Land Bank, city and county), public safety, fire, and unemployment. The data assessment will provide decision makers a clear understanding where government investment will produce the greatest impact and return on investment.

Once a school is selected within a targeted area based on the data assessment, subsequent activities will engage the community to secure acceptance and local buy-in from community stakeholders to coordinate outcomes that added significant value to the existing neighborhood quality of life strategies for students and their families. The NSSA requires a long-term commitment by the school system to maintain operations at that school for no less than five years, dual purpose the facility as recreational options for the community and extend the hours of operation from 8 to 12 hours/day.

City, county, federal and state partners will assess and allocate resources (human and financial) specifically targeted at areas around schools to reduce blight, enhance security and lighting, insert state services in the

schools, and use the lengthened school hours of operation for programs such as adult literacy initiatives, talent development, or community recreational activities. The initiative must be embraced by community stakeholders and include an anticipated and well-orchestrated exit strategy by the some state government.

Implementation

- Strategy implemented August 2012 in three communities in Detroit with the kickoff at Clark Elementary School in Detroit with Mortgage Settlement funding to address blight
- Strategy will be expanded to two additional neighbors in Detroit beginning October 2013, and in Flint and Benton Harbor by the 2nd quarter of 2014.

Impacted Areas

- **Focus Areas:** Economic Development, Placemaking, Education
- **Primary Indicator(s):** Reduction of crime, population growth, business growth
- **Secondary Indicator(s):** Investment in neighborhoods; Quality housing
- **Lead Department(s): MEDC, MSHDA and MSP**
- **Geographic Area:** Detroit, Flint, Grand Rapids

NSSA: AMERICORPS URAN SAFETY PROJECT (AMUS)

Project Description

The AmeriCorps Urban Safety project (currently run by Wayne State University) is designed to build a culture of neighborly communication and responsibility in the city of Detroit. In order to reduce crime in the area, AMUS working with local residents to create block clubs, a forum for residents to connect and create neighborhood safety strategies. This initiative provides the spark for a network of residents that will continue their crime-fighting efforts well after the program has moved on. AMUS works to improve levels of neighborhood guardianship; reduce victim attractiveness and susceptibility; and provide technical assistance for wireless internet connections in residents' homes, in order to enable citizens to use Internet-based programs to help reduce crime.

In an effort to enhance the NSSA Initiative, AMUS was expanded to five areas in Detroit which includes the three existing NSSA areas through a Governor's/Mayor's AmeriCorps Grant. In November 2013, Gov. Rick Snyder and Mayor Dave Bing announced the launch and expansion AMUS crime reduction model in the city of Detroit. This initiative is a unique public-private partnership, the program utilizes 36 AmeriCorps members as catalysts to mobilize and recruit community volunteers to join them in improving public safety in targeted Detroit neighborhoods.

AMUS utilizes the progressive COMSTAT crime mapping program to evaluate crime "hot-spots" and implement targeted strategies to reduce blight, assaults, break-ins, drug dealing, and vehicle-related crimes. Contributing to the program's success, which has seen a 44 percent reduction in crime in its targeted areas, is the joint collaboration between residents, neighborhood non-profits, faith-based organizations, law enforcement, existing neighborhood associations and block clubs to improve public safety.

Currently, AMUS is active in **five areas strategically selected in neighborhoods surrounding local Detroit schools where other state and local improvement initiatives are already underway around the following public schools:** English Village, Cody, Osborn, Clark, Bates, Bagley, Gompers, Harms and Neinas. The effort also includes two EAA schools: Bethune and Phoenix Academy. Flint is the next community to launch this initiative.

The funders are the Corporation for National and Community Service (CNCS) CEO, and the foundation community. CNCS is responsible for administering all federal national service programs, including AmeriCorps, Senior Corps, the Volunteer Generation Fund, and other service efforts.

Implementation

- Identify schools in an NSSA area.
- Complete crime mapping
- Apply for CNCS support (currently the Governor/Mayors RFP)
- Secure foundation support to serve as a CNCS match
- Implement COMSTAT monitoring through a local university.

Impacted Areas

- **Focus Areas:** Public Safety
- **Primary Indicator(s):** Kindergarten readiness; 3rd grade reading proficiency
- **Secondary Indicator(s):** Investment in neighborhoods; Quality housing
- **Lead Department(s):**MEDC
- **Geographic Area:** Detroit and Flint

NSSA: ONE STOP CENTER

Project Description

One Stop Health Center modeled after Holy Cross Children's Services Samaritan Center in Detroit. Services available at the center include: medical and mental health services, job training and placement, educational programs, spiritual ministries, youth recreational opportunities, housing development, business and community development, and general community support. Services are available for seniors, children, adults, and families. This model is consistent with other neighborhood based intervention strategies such as Pathways to Potential, Neighborhood School Anchor Strategy and Community Schools. With the increase in school closures in many of our urban centers the remaining buildings are prime candidates to be repurposed for this type of model. Services would primarily focus on health as there is an increased need for Federally Qualified Health Centers, but expansion of these centers could include several wrap around services that currently exist in the Samaritan Center which are critical for the targeted underserved populations.

Samaritan Center: http://www.samaritan-center.net/

Implementation

Initial task is to identify appropriate location within Flint to house the center working with the Flint Community Schools remaining building inventory. This discussion has already begun and can be bolstered with state endorsement. From there identify which existing programs are to be enveloped

into the center (pathways to potential, workforce development, financial literacy training etc…). The final operation of the center will be strongly based on the location of the center, nearby community needs and cooperation of relevant departments, agencies and external organizations.

Impacted Areas

- **Focus Areas:** Health, Talent
- **Primary Indicators:** Number of primary care providers per capita
- **Secondary Indicators:** Amount of certificate training offered
- **Lead Department:** DHS, DCH and School Building Project
- **Geographic Area:** Flint

NSSA: SCHOOL OF CHOICE ANCHOR

Project Description

Despite remarkable revitalization in the surrounding neighborhood, enrollment continues to lag at Congress Elementary. Indeed, approximately half of the available students in the neighborhood (some 350) choose to attend Congress, which sits at the heart of the neighborhood. Hundreds more available students live in the schools' total catchment area but many also choose alternative options. Congress as a result currently operates at 52 percent capacity which threatens:

- Building closure
- Critically important school-owned public space
- Neighborhood's ability to retain and attract families.

In response to these concerns, the *East Hills Love Congress* initiative aspires to reinvent the elementary school as the school-of-choice for young families and ultimately a neighborhood anchor institution.

Implementation

East Hills Loves Congress, developed by the East Hills Council of Neighbors, is a strategic initiative to:

- Organize a group of families that will enroll their kids at Congress.
- Design and implement a neighborhood-based Spanish/English program to more effectively serve the surrounding Latino/Guatemalan population.
- Design and implement a "walkable school" model to strengthen community connections among students, residents, businesses, and educators.
- Develop a community-driven plan for the future improvement of school facilities, with special emphasis on maintaining the building as a hub for community activities.
- Establish a critical path for meaningful parental/community participation in school reinvention.

These activities are fully aligned with Grand Rapids Public Schools' Transformation Plan and the District views this pilot initiative as a potentially promising model for deployment to other neighborhoods.

The neighborhood also currently is developing a resident-driven Public Spaces Improvement Strategy that will define specific recommendations for restoration/expansion of the school and rehabilitation of the surrounding park and green space.

Impacted Areas

- **Focus Areas:** Education, Placemaking
- **Primary Indicator(s):** Kindergarten readiness; 3rd grade reading proficiency
- **Secondary Indicator(s):** Investment in neighborhoods; Quality housing
- **Lead Department(s):** MEDC, MSHDA and School Building Project
- **Geographic Area:** Grand Rapids

NSSA: TARGETED JOB TRAINING

Project Description

Most job training programs are targeted at all residents in a city. The challenge to train enough people who secure employment to impact unemployment is extremely difficult in cities like Detroit, Flint, Saginaw, and Muskegon Heights. The objective with Neighborhood Targeted Job Training would be to train and secure employment by neighborhood as a mechanism for stability; a working neighborhood is a safe and populated neighborhood.

The 2014 effort will pilot Detroit STRIVE, a best practice , neighborhood-based workforce development program..

STRIVE

STRIVE's mission is to help people acquire the life-changing skills and attitudes needed to overcome challenging circumstances, find sustained employment, and become valuable contributors to their families, their employers, and their communities.

- Since 1984, STRIVE has helped over **50,000** individuals find work
- STRIVE graduated **3,000** and **placed over 2,200** into jobs nationwide last in 2012.
- **Two-thirds** of STRIVE graduates **are placed** into jobs
- STRIVE's graduates **earn $10-$11 per hour** on average – a threshold to living wages
- More than **90% of graduates are still working** three months after placement

Implementation

- Secure unemployment data for each NSSA neighborhood.
- Place STRIVE in one NSSA neighborhood and CMEP in another targeted neighborhood.

Impacted Areas

- **Focus Areas:** Economic Development, Housing and Talent Attraction/Retention
- **Primary Indicator(s):** Percentage population that live and work in the city; Percentage of the population employed in the targeted neighborhood, Quality of housing (condition of structure), Number of people per acre in city overall, Net migration rate
- **Secondary Indicator(s):** Number of jobs created through incentives, Cost per incentivized job created, Dwelling vacancy rate by specified rental- or owner-occupied status.
- **Lead Department(s):**MSHDA and MEDC
- **Geographic Area:** Detroit

OPERATIONAL EXCELLENCE IN LOCAL GOVERNMENT

Project Description

The Grand Rapids Area Chamber of Commerce is leading a public-private initiative to institutionalize *Operational Excellence* (OpEx) across local governments by introducing *Lean Six Sigma* (LSS) processes.

- OpEx is a philosophy of leadership, teamwork, and problem solving that supports continuous improvement throughout an organization by focusing on the needs of the customer/citizen, empowering frontline employees, and optimizing existing process activities.
- The LSS management method is a proven approach to improve efficiency and effectiveness. LSS enables break through innovation and removes barriers by establishing an organizational culture in which innovation is instinctive.

This initiative potentially presents an innovative approach to improve municipal service delivery. Taken together, OpEx/LSS is an inclusive approach that works from within the organizations and is most effective when the subject matter experts who actually work in the organizations are directly engaged in identifying, developing, and implementing process improvements.

The Chamber initiative comes in response to recommendations made by the Community Collaboration Work Group, established by the Kent County Board of Commissioners in 2011 "to identify, evaluate, and recommend opportunities for collaboration and consolidation of public services." The Work Group's report, presented in March 2013, outlined several recommendations to enhance government efficiency and effectiveness and boost economic development opportunity across the region. The report also cited private sector leadership via the Grand Rapids Area Chamber of Commerce as key to implementing the recommendations.

Implementation

1. A Community Trustee Leadership Team made up of key private sector executives will guide the Chamber's initiative, which proposes to focus in three key service delivery areas: public safety, judicial, planning and zoning.
2. A preliminary pilot study of public safety practice(s) across three local jurisdictions will be conducted in fall 2013 to gauge the initiative's potential to return positive results.
3. The project is envisioned as a three-year initiative with results available by June 2018.

Impacted Areas

- **Focus Areas:** Municipal government
- **Primary Indicator(s):** annual cost savings achieved through partnerships
- **Secondary Indicator(s):** stable general fund balance; paid ARC contributions; investment in building areas
- **Lead Department(s):** Treasury
- **Geographic Area:** Metro Grand Rapids

PLACES AND PRACTICES

Project Description

It is known that the largest generation in the United States is now the millennial generation, and that they are increasingly choosing where to live based on quality of place, bringing their talent, innovation, and entrepreneurialism to places outside of Michigan. With only one city in the *top 100 places to live for millenials,* Michigan is at a decided disadvantage when it comes to attracting and retaining talent, something vital to our state's success.

With the advent of the MIPlace initiative, the state, its component departments, and also local units are increasingly realizing the importance placemaking. Recently, The Office of Urban and Metropolitan Initiatives contracted with consultants U3 Ventures to analyze the potential for anchor-based economic development strategies and placemaking -a vital component to the transformative turnaround of Midtown Detroit.

In the eight cities already analyzed, U3 has provided a set of recommendations on how best to leverage the power of local anchor institutions and identified additional opportunities for transformative practices and projects.

Working in close coordination with multiple state agency partners, OUMI will act as advisor for the implementation of a three phase anchor-based economic development program in two tiers of cities (based on population). Step one will consist of identification of communities with potential for anchor-based economic development strategies with an online assessment tool (complete in tier one cities). The identified tier-two cities will receive a package of consulting services through U3 Ventures which will analyze the demographics, housing stock, and opportunities for development strategies. Once U3 has made recommendations, communities will follow a carefully plotted set of additional steps ensuring that local conditions, zoning regulations, development processes etc. meet best practice benchmarks. At the conclusion of each phase, the state will provide an additional suite of grants/technical assistance/project assistance.

It is anticipated that this project will result in a great number of Michigan cities adopting best practices from a zoning and development process perspective, making them more attractive to private investment. Additionally, through the coordination of anchor institution resources it is anticipated that a number of locally-financed initiatives will emerge, driving increased local procurement, innovation, and leading to denser residential patterns.

Implementation

1. **Identification of set of local best practices to encourage**
2. **Identification of state incentives to be offered at completion of stages**
3. **Software tool design and build.**
4. **Project roll-out**
5. **Track and report impacts**

Impacted Areas

- **Focus Areas:** Economic Development, Placemaking, Municipal Finance, housing, public safety, Talent
- **Primary Indicators:** Percentage of people that live and work in the city, Public/private investment in blighted/contaminated structures and land, Quality of housing, Number of blighted or abandoned houses as percentage of housing stock, Population and household density.
- **Secondary indicators potentially impacted**: Number of mixed-use building permits, Assessed values per-capita, biking paths/facilities, Complete streets policies/ordinances, Walkscore

- **Lead Departments:** MSHDA, MEDC
- **Geographic Area:** Kalamazoo

PUBLIC SCHOOL JOINT USE INITIATIVE

Project Description

There are more public school buildings than any other public facility in the United States; the buildings contain an estimated 6.6 billion square feet of space on more than 1 million acres of land. Schools have highly desirable spaces for joint use, such as meeting rooms, auditoria, gymnasia, swimming pools, playgrounds, and sports fields, and in the decade between 1994 and 2005 about $500 billion was spent by school districts on new school construction and building improvements.[1] About half of this was spent on new construction and additions, but the other $250 billion was spent on improvements to existing facilities. There is a growing conversation about and demand for joint use[2] as a way to provide services to children and families in convenient locations, improve opportunities for physical activity by increasing use of school recreational and outdoor spaces, leverage capital investments, and more.

In Detroit and other urban communities, there are more seats than there are students. With a decline in population in most urban centers, more schools will have to close. When a school closes, it decimates a community/neighborhood. The model for such an approach is the Argonaut Building in Detroit which thee College for Creative Studies (CCS), a leading institution for art and design education, redeveloped the historic into a new arts- and design-focused community in the New Center commercial district of Detroit, Mich. As the centerpiece of the New Center Economic Development Plan, the project preserves the historic Argonaut Building while restoring it to use for a growing community of creatively-focused businesses, nonprofits, professionals and students. The Argonaut Building houses a charter school; a creative business accelerator offering office space and services to start-up ventures; administrative, learning and student living facilities for CCS; and office and retail space.

Implementation

- Use social impact bonding in a K12 neighborhood school with less than 60% occupancy for a mixed used development in the school's unutilized space.
- Development commercial opportunities in public school space

Impacted Areas

- **Focus Areas:** Economic Development, Placemaking
- **Primary Indicator(s):** Private-public investment in vacant buildings.
- **Secondary Indicator(s):** Investment in neighborhoods; Quality housing, job creation
- **Lead Department(s):** School Building Project
- **Geographic Area:** Detroit

[1] Filardo, Mary, Jeffrey M. Vincent, Ping Sung, and Travis Stein. 2006. Growth and Disparity: A Decade of US Public School Construction. Washington, DC: Building Educational Success Together.
[2] http://citiesandschools.berkeley.edu/reports/2010_JU_Concept_Paper.pdf

PUBLIC SCHOOL JOINT USE INITIATIVE: Second Vocational School Supplier

Project Description

Volkswagen Slovakia has its own training center, which is run in cooperation with the Electro-Technical Secondary Vocational School in Bratislava. Every year, the company selects around ten students enrolled in the first year of the school to continue their training at VW, where they complete the second and the third year of studies. Another 10-15 graduates of higher education are also offered work placements within VW Slovakia, for a 12-month training program (Interview VW SK:2010).

Researchers find the presence of widespread vocational training, which is usually taken as a marker of specific skill regimes, as an indicator suggesting a convergence towards a coordinated market economy types. Although countries exhibit different trends in the relative supply and wages of workers who are secondary education graduates, there is evidence of increased demand for skilled workers, reflecting skill-biased technological change.

One idea to accelerate convergence is to establish a relationship with an OEM to partner with a K-12 vocational school to serve as a tier supplier. For example, Ford contracts with Randolph Career and Technical Center in Detroit to supply a "widget" for its company. Revenues support employees and overhead so that Randolph is self-sustaining. Employment opportunity will be for 11th or 12th graders with an opportunity to be pipelined into advanced training with the OEM.

Implementation

- Secure a contract with one of the "Big Three Auto" and Lear.
- Work with Focus Hope to manage the initiative with DPS.
- Target three vocational schools in Detroit through DPS.
- Target effort as pilot at Randolph Career and Tech Center

Impacted Areas

- **Focus Areas:** Economic Development, Education
- **Primary Indicator(s):** Percentage population that live and work in the city
- **Secondary Indicator(s):** Number of jobs created through incentives, Cost per incentivized job created, and Percentage of students earning a post-secondary degree or certificate.
- **Lead Department(s):** MSHDA and MEDC
- **Geographic Area:** Detroit and Kalamazoo

RESONANT CITIES PROJECT

Project Description:

The ability of the arts to impact quality of life, and thus the economic vitality of a community is well-established. Increasingly, the establishment is realizing the contribution that vibrant public places play in developing healthy communities. Likewise, communities that have an actively engaged citizenry realize greater outcomes in economic, public safety, and employment measures among others.

With an increasing amount of state investment and education being directed at large-scale Strategic Placemaking, and the foundation laid by initiatives such as ArtPlace America or the NEA's Our Town initiatives, it is important to not overlook the value and impact of grassroots, artist-led creative placemaking. Major philanthropic investments from the Kresge and Knight Foundations have given credence to the fact that modestly-funded, arts-based, citizen-driven placemaking projects are one of the leading contributors to quality of life, economic vitality and connectivity across communities.

It is proposed that the state fund a multi-stage competition in the 8 communities served by OUMI to help with the launch of creative placemaking projects. In each community, artists from across Michigan would be asked to partner with community-based teams to propose small creative placemaking projects. In each of the communities, a workshop would be conducted with the selected teams to educate and equip the teams with skills, resources and network to position them to engage in effective and sustainable creative placemaking, positioning these efforts to continue and be shared among other Michigan communities.

The selected teams would have 30 days to refine their project proposal, and in each city, one winner of a $5,000 grant would be selected. Stage two would allow the eight winners to compete for four grants of $25,000 to complete their projects. To be eligible for one of the semifinalist grants, teams would have to provide a 1/1 match for the $5000 grant from community-based sources. The four semi-finalists would be allowed to compete for one final grant of $50,000 to implement their project.

With preference given to projects that are artist-led, involve high levels of community engagement in design and implementation, and serve to address specific issues/challenges identified by and relevant to the community, this project would have significant impact in vibrancy of place, likely leading to increased economic and investment activity, neighborhood improvements and increased connectedness across communities. Additionally, through the requirement that local teams use crowdsourcing and other non-traditional fundraising mechanisms, to leverage funding and cultivate community buy-in and engagement, a grassroots philanthropic ecosystem will be fostered in these communities.

Implementation

1. Design program
2. Design partnership agreement with ArtServe Michigan
3. Initiative launch
4. Publicity campaign

Impacted Areas

- **Focus Areas:** Arts, Culture, and the Creative Economy, Placemaking, Civic Engagement
- **Primary Indicators:** Economic activity, income, and jobs generated by arts and cultural organizations, and creative industries, both direct and indirect, Net migration rate, Public/private investment in contaminated/blighted/vacant land and buildings.
- **Secondary Indicators:** Dollars raised in local arts-related capital campaigns, State dollars invested in arts, culture, and creative economy support and promotion, Number of creative jobs, creative businesses, and creative industries clusters, including sector growth trends and comparison against leading models nationally, Number of opportunities/access for residents of area to volunteer or engage, Number of theaters, restaurants, and cultural events, Number and size of public gathering spaces in downtown, neighborhood areas.
- **Lead Department:** MEDC, MSHDA and Arts Council
- **Geographic Area:** varied depending upon applicants

TARGETED URBAN EXPANSION PROJECT

Project description

As Michigan continues to recover from the great recession, jobs are being added at a robust pace and the manufacturing sector, especially autos is thriving. Concurrently, the numbers of structurally unemployed in our urban areas remains unacceptably high and educational attainment levels unacceptably low. New jobs being added to the market are not having the impact on the most marginalized populations. Additionally, many Michigan OEMs are utilizing out-of-state suppliers producing tremendous economic leakage.

MEDC programs Pure Michigan Business Connect and Community Ventures both address parts of these challenges in limited ways. PMBC events offer Michigan-based suppliers the opportunity to network and meet with OEM procurement departs and has been successful in directing millions of dollars back into the Michigan economy. This investment however, has not been directed into any specific geography. Community Ventures offers employers the opportunity to receive $5000 for every person that they hire from returning prisoner populations, also providing necessary social services and support. This program has been limited to Detroit, Pontiac and Flint. Some employers have expressed concern with the perceived bureaucracy programs such as this typically entail and have been reluctant to utilize them.

This project stems from a conversation Director Hollins had with Mark Weishaar, President of Sturgis Molded Products. Mr. Weishaar's company has realized great success and he was seeking to give back to the region and offer employment to populations that have been structurally unemployed. Additionally, Mr. Weishaar is willing to bring the jobs ***to*** these populations, and is seeking to build a new facility in the heart of urban Kalamazoo for that purpose.

The key to this project's success is the ability of Sturgis Molded Products securing a contract large enough to justify the building of the new facility. We envision taking the PMBC model and reversing the relationship- that is, as opposed to numerous suppliers having the opportunity to get in front of one OEM with the goal of securing business, MEDC would facilitate Sturgis Molded Products and similar suppliers with a commitment to hiring underserved populations and locating in urban centers an opportunity to meet with multiple OEMs to share their vision for urban employment and secure contracts.

This initiative provides the opportunity to direct investment into urban core cities, creating much needed tax base. This project will direct jobs to populations desperately in need. It is envisioned that similar suppliers willing to hire structurally unemployed individuals could be identified in multiple communities and that OEMs looking for a positive PR story without the perceived challenges of working through a program such as Community Ventures would be interested in participating in the program.

Implementation

1. Design program parameters
2. Publicize and secure partner companies
3. Launch events
4. Track results

Impacted Areas

- **Focus Areas:** Economic Development, Municipal Finance
- **Primary Indicators**: Per capita incomes of 18-35 year-olds, Percentage of population employed, Median household income, Percentage of population that lives and works in the city, Unrestricted general fund balance is stable or increasing over five-year period.
- **Secondary indicators:** Number of jobs created through incentives**,** Average FICO score in census tract
- **Lead Department:** MEDC
- **Geography:** Kalamazoo

TALENT DEVELOPMENT PROJECTS

Michigan's Urban Centers are places where mobile young talent locates, the existing workforce is ready for the diverse jobs that are available and the next generation is being prepared for the jobs of tomorrow. The following are key objectives for talent development in cities:

1. Cities have a trained, competitive workforce
2. Cities are places where talented individuals choose to live and work
3. Cities create, grow, and prepare for the next Michigan economy.

METRO EZ RIDE

Project Description

The need for reliable transport services for Detroit residents is undeniable as time after time we hear that transportation is a barrier in connecting employers and workers. Residents are conflicted enough with challenges of finding and keeping a job or attending college, university or trade schools. *MetroEZride* will represent a new **GAP** transportation strategy and community partnerships to help job seekers, students and employers surmount transportation barriers and develop transportation solutions.

A top notch transportation network is a key component to successful economic growth and connecting people and jobs in new ways is a vital part of a public transportation system. We're excited about our potential to work together as a region to develop comprehensive transportation solutions. Following its Detroit launch, *MetroEZride* will begin community-based planning process [focus groups, research, and meetings with key stakeholders] in Flint, Pontiac and Saginaw to develop similar workforce transportation strategies that can be used as a roadmap for action in those communities.

Implementation

- Access opportunities to for GAP transit services in Detroit that are not competitive with existing city transit operations.
- ***MetroEZride* will partner with faith-based, community, business and grassroots organizations** utilizing vans and passenger vehicles typically not used during the weekday. *MetroEZride's* transportation network will also include its own fuel-efficient passenger vehicles and serve to maximize the potential of existing D-DOT/SMART regional public transportation system by forming connecting hubs.

- *MetroEZride* services will be designated for urban core residents *(18 and older and Detroit Public School night school students taking additional classes to graduate)* needing new transit options to city and suburban job sites and schools, and employed workers in 24/7 industries such as health care and hospitality who need transportation on evenings, nights and weekends.

Impacted Areas

- **Focus Areas:** Mobility and Talent Attraction/Retention
- **Primary Indicator(s):** Percentage population that live and work in the city; Annual number of public transit trips per capita
- **Secondary Indicator(s):** Investment in neighborhoods; Miles of transit routes Timeliness of service (i.e. reliability)
- **Lead Department(s):** MDOT and MEDC
- **Geographic Area:** Detroit

LEGISLATIVE INITIATIVES

LAND VALUE TAXATION TO REPLACE TRADITIONAL PROPERTY TAXES

Problem: The strong demand for urban core living is evident on the ground and in the numbers. Housing market values on main streets are substantially, and rental vacancy rates are low. Developers are responding to growing demand, and new construction and rehab activity are becoming visible in several cities including Detroit. In spite of this activity, persistently high occupancy rates indicate an undersupply of housing—a condition created by a substantial gap between what it costs to construct or rehab new units, and the (still low) rents the market will support.

Solution: The state should **consider legislative options for allowing the City of Detroit (and other cities) to use land value taxation in place of traditional property taxes** as a means of raising revenue and encouraging sustainable development. This form of taxation only taxes the value of the land, not the buildings or equipment that makes up the full value of the real estate (as done with traditional property taxes). By taxing only the land at a higher rate, instead of the entire property value at a lower rate, cities could remove some of the disincentives for developers to make improvements to properties and reduce the speculative element in land pricing that result in long-term vacant or abandoned properties. This tool has been used effectively in states such as Pennsylvania and Maryland to maintain (and increase) municipal revenue and help improve local economic conditions. The elimination of the PPT should achieve some of this.

Impacted Areas

- **Focus Areas:** Housing, Placemaking
- **Primary Indicator(s):** Population growth, business growth
- **Secondary Indicator(s):** Investment in neighborhoods; Quality housing
- **Lead Department(s): Treasury, DTMB**
- **Geographic Area:** Statewide

MCOLES REVISION

Problem: Reduction in funding support for cities has challenged the stability of law enforcement. In 2012, Michigan had eight cities listed on the FBI's top 100 most violent crime list which four were on listed in the top 10. In 2004, MCOLES rule changes prevented private colleges and universities from having peace keeping activities outside the footprint of their campus.

Solutions: Revise MCOLES to permit private institutions to have arresting authority outside the footprint of their campus under certain conditions modeled after Wayne State University's policing operation in Midtown Detroit.

Impacted Areas

- **Focus Areas:** Public Safety, Placemaking
- **Primary Indicator(s):** Reduction of crime, population growth, business growth
- **Secondary Indicator(s):** Investment in neighborhoods; Quality housing
- **Lead Department(s): MSP, MEDC, MSHDA**
- **Geographic Area:** Statewide with primary impact cities being Detroit and Flint

ON-BILL FINANCING OF HOME ENERGY IMPROVEMENTS

On-Bill Financing of Home Energy Improvements

Project Description

Holland, MI, which has a municipal utility serving its residents and businesses, has developed a widely-supported *Community Energy Plan* that aspires to establish the city as a national leader in energy affordability, efficiency, and security. The Plan's overarching mission is to enhance Holland's attractiveness to investors, businesses, and residents by providing a more cost-effective, reliable, clean energy supply.

One key component of the Plan is the proposed *Home Energy Retrofit Pilot Program*, an initiative to lower energy rates, leverage private capital and expertise, drive home improvements that boost energy efficiency and conservation, and save money for all Holland citizens and businesses. The program's innovative idea is to finance home energy improvements with on-bill financing, a new approach that enables home owners to pay for improvements through monthly utility bills rather than upfront payment or borrowing money, the traditional financing paths that often serve as barriers for homeowners. (This is similar to the performance contracting model that the Michigan Legislature and Governor recently supported for business and government, only designed for homeowners.)

The City has yet to promote the proposed retrofit program but currently counts some 200 residents interested to take advantage of the initiative. The Holland Board of Public Works, the municipal utility, wants to partner

with private capital and service firms to perform 1) home energy audits and 2) deep energy retrofits on homes across the city. A pilot already is designed and ready to kick off.

This retrofit program is a key building block in Holland's plan to keep energy costs and rates down by rightsizing their current build power plant building needs. Current law does not allow the utility to implement this locally-designed, locally-desired program.

What the City needs to move forward is flexibility from the Michigan Legislature. The City's preferred solution is legislation that specifically authorizes their municipal utility to offer the on-bill financing option by securing debt against home energy meters. The City has worked diligently to draft proposed legislation and secure the support of key West Michigan lawmakers. The Governor's administration also supports Holland's request for this flexibility.

Given the legislative solution, Holland could begin to implement its pilot initiative and, if successful, scale the program city wide. The initiative also potentially provides a new model for both other municipal utilities and private sector energy companies to consider.

Impacted Areas

- **Focus Areas:** Energy and Environment; Quality of Housing
- **Primary Indicator(s):** Energy expenditures as a percentage of household income
- **Secondary Indicator(s):** Quality housing; Percentage of homes meeting Healthy Home principles
- **Desired Outcome(s):** Lower energy rates and costs for businesses and residents; long-term property value improvements; resident and business satisfaction
- **Geographic Area:** Holland
- **Cost:** Modest staff time and technical assistance

From: Saxton, Thomas (Treasury)
Sent: Tuesday, September 29, 2015 11:54 AM
To: Hollins, Harvey (GOV)
Subject: FW: KWA & Water Quality Chronology Timeline
Attachments: KWA & Water Quality Chronology Timeline.09-28-15.docx

Importance: High

fyi

From: Saxton, Thomas (Treasury)
Sent: Monday, September 28, 2015 5:57 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Cc: Khouri, Nick (TREASURY) <KhouriN@michigan.gov>; Workman, Wayne (TREASURY) <WorkmanW@michigan.gov>; Stanton, Terry A. (Treasury) <StantonT@michigan.gov>; Wurfel, Brad (DEQ) <WurfelB@michigan.gov>
Subject: FW: KWA & Water Quality Chronology Timeline
Importance: High

Dennis – attached is a first draft of a timeline. We will refine it tomorrow. We rec'd some info from Brad that we might need to incorporate. And Terry & Wayne's staff are still coming up with dates/events. Please let us know if this is what you had in mind.

Terry found these links; including an article when City Council approved the move/switch. There are some noteworthy quotes.

http://blog.mlive.com/newsnow_impact/print.html?entry=/2013/03/flint_city_council_approves_re.html

http://www.mlive.com/news/flint/index.ssf/2012/10/construction_permit_approved_s.html

Flint City Council approves resolution to buy water from Karegnondi, state approval still needed

Dominic Adams | dadams5@mlive.com By **Dominic Adams |** dadams5@mlive.com The Flint Journal

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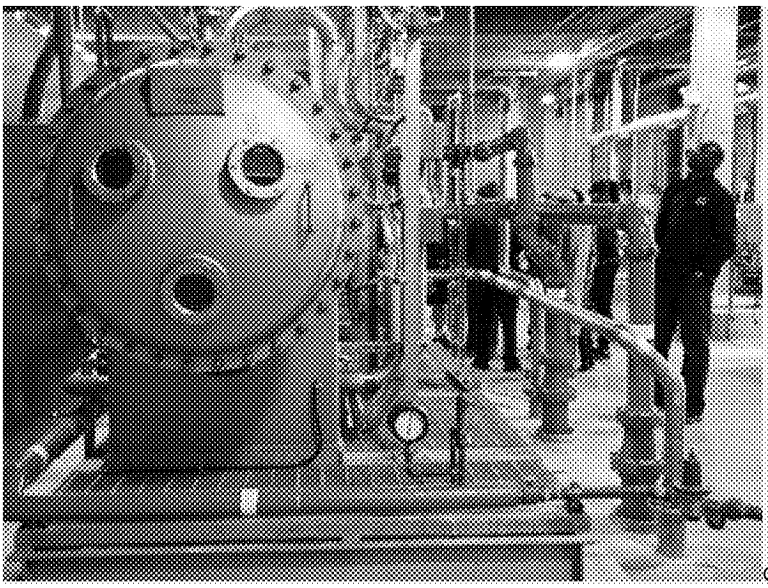
on March 25, 2013 at 10:45 PM, updated March 26, 2013 at 1:28 AM



Guests get a look at an ozone generator at the Flint Water Treatment Plant during a public tour in this file photo. MLive.com File Photo

FLINT, MI – Flint is one step closer to getting its water from Lake Huron as part of the Karegnondi Water Authority.

The vote, **approved 7-1 at the Flint City Council meeting Monday, March 25**, may have set in motion the end to Flint paying to get its water from Detroit.

Under the proposal, Flint would get 16 million gallons per day of raw water from Lake Huron, pipe it to Flint for treatment and then sell it to customers throughout the city. Another 2 million gallons per day would come from the Flint River and will be treated in Flint.

Mayor Dayne Walling said the Department of Environmental Quality must approve Flint's getting 2 million gallons per day from the Flint River.

Tuesday's meeting followed weeks of discussions and special meetings surrounding the resolution.

"We got there," Councilman Joshua Freeman said. "That's the important thing."

There were more than 50 people at Monday's meeting.

"Going with Karegnondi is the best decision. We have no opinion on the economics of the decision," said Rebecca Fedewa, Flint River Watershed Coalition executive director. "If we start drawing water out of the Flint River, we are at risk of having to start releasing water from our reservoirs."

Genesee County Drain Commissioner Jeff Wright said the decision must still be approved by a county water and waste advisory board. The KWA board will then be reconvened for final approval.

Wright said construction could start in May.

State treasury officials still must approve the city council's move because Flint has an emergency financial manager. All expenditures over $50,000 must be approved.

Genesee County Drain Commissioner Jeff Wright has said that Flint would pay roughly $6.4 million annually for water service if it joined the pipeline – a nearly $4 million savings on what it pays Detroit for water.

Walling previously said the **city would save $19 million over eight years** by getting water from the KWA.

"It's a historic night in the City of Flint," Walling said. "The savings will be less with the capacity level approved by city council because there will be increased treatment cost for the river water."

He said the DEQ told the city it needed to get 18 million gallons per day or there would have to be additional work done at Flint's water plant.

Flint's water plant and the Flint River is currently the backup for Flint and Genesee County, however, the plant only operates four times per year.

Councilman Bryant Nolden was the lone dissenting vote.

"It was a protest vote," Nolden said. "I knew they had enough votes. I just feel like the Flint River is our best option."

Karengnondi is the regional water authority that includes Genesee, Lapeer and Sanilac counties and the cities of Flint and Lapeer.

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Massive Karegnondi water project moving forward after state OKs pipeline tap into Lake Huron

Print

By Ron Fonger | rfonger1@mlive.com The Flint Journal
on October 01, 2012 at 7:00 AM, updated October 01, 2012 at 7:32 AM

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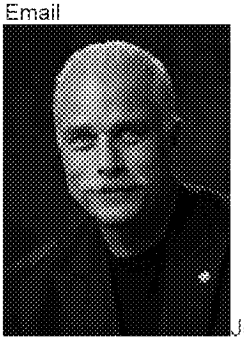

Jeff Wright

GENESEE COUNTY, MI -- The state has approved a critical permit that allows the Karegnondi Water Authority to tap into Lake Huron with a 1.5-mile underground intake.

But water authority officials are still waiting for Flint to decide if it will be part of it.

Construction on the intake -- estimated to cost $27 million -- might mark the no-turning-back point for the massive project, and county Drain Commissioner Jeff Wright said other developments make it necessary Flint to make a final decision on its involvement in the next few months.

As control of Flint has shifted from mayors and city councils to emergency managers, the city has never committed to buying a minimum volume of water from the KWA.

"The only question at this point really is whether Flint is going to be a partner," said Wright, who has met with emergency financial manager Ed Kurtz and wants to resolve the question before Kurtz leaves his position -- something likely to happen soon after the November election.
"I'd say we have a couple of months here," Wright said of Flint's deadline. He described Kurtz as positive about the city's potential involvement but said, "There's still some questions Flint is working on with Detroit and Lansing."

Kurtz said he can't predict what will happen.

"We're looking at all our options," Kurtz said Friday.
County Commissioner Ted Henry, D-Clayton Twp., said regardless of the city's participation, the pipeline can be built by the remaining partners: Genesee, Sanilac and Lapeer counties and the city of Lapeer.

"The answer is yes," Henry said. "It will be a little different but it can go,"

The drain commissioner said construction of the pipeline intake, which has already been designed, is expected to start this year, after the job is put out for bids and borrowing is authorized by the county Board of Commissioners.

Building the intake will be specialized work, part of which must be done from a barge, and will require building tunnels below the sand bottom of the lake and laying an 84-inch pipe below the surface of the water.

In addition to the state Department of Environmental Quality permit to build the intake, the KWA also needs approval from the U.S. Army Corp of Engineers, Wright said.

A 45-day public comment period on the intake permit has passed and county officials said they expect the permit to be approved within two weeks.

Among other recent developments in the pipeline project:

- The Genesee County Water and Waste Advisory Committee, made up of elected and appointed city, township and village officials, has voted unanimously to set a date for accepting public bids to build the intake.
- The same committee has approved negotiating a contract with Wade Trim to act as program manager for the pipeline project once all necessary permits have been received.
- The county has revised its estimate on the cost of the intake portion of the pipeline from $40 million to $27 million.

Wright said his office is ready to negotiate a contract for Wade Trim to oversee the pipeline work, and said he expects six or seven engineering and surveying companies to assist in getting the job done.

County officials count those jobs among the 1,000 that they say will be created by building the pipeline.

"I want to use local (people) wherever possible and keep the money here," Wright said.

The drain commissioner said the selection of Wade Trim is important to the city of Flint because it signals the start of engineering, which includes decisions about the size of pumps, motors and pipes that will be used to build the pipeline.

Flint officials have options, including the use of Flint River water, or continuing to purchase water from the city of Detroit.

Wright said the only choice for the rest of the county is build the pipeline or sign a 30-year contract with Detroit.

A KWA study claims that continuing to buy water from Detroit will cost the region $2.1 billion during the next 25 years. By building a pipeline, that cost would be $1.9 billion over the same period, the KWA Web site says.

After the initial 25-year period, the cost of water would be less than 25 percent of the projected cost of water form Detroit, according to KWA.

Ron Fonger can be reached at 810-347-9963. You can also follow him on Twitter @ronfonger or subscribe on Facebook.

STATE OF MICHIGAN
DEPARTMENT OF TREASURY
LANSING

RICK SNYDER
GOVERNOR

NICK A. KHOURI
STATE TREASURER

Flint Water Timeline (09-28-15)

June 26, 2012 – Letter from Flint EM Mike Brown to DWSD for permission to begin blending Flint River water with treated water from DWSD. The letter indicates that the DEQ is supporting this option and its implementation would save the City between $2M and $3M annually.

September 20, 2012 – Letter from Flint EM Ed Kurtz to DWSD requesting written permission to implement the blending option. Approval is requested by October 1, 2012.

October 31, 2012 – Analysis by the Flint Finance Director suggests that the annual cost to purchase water from DWSD will steadily increase to $23M per year by fiscal year 2020.

November 2012 – Treasury retains Tucker, Young, Jackson and Tull (TYJT) to evaluate the KWA proposal to the City of Flint.

November 6, 2012 – Letter from Flint Emergency Manager Ed Kurtz to State Treasurer Dillon that a proposal from DWSD is expected but that the initial assessment is that switching to KWA is in the best interest of the City of Flint.

February 2013 – TYJT issues a final report to Treasury on the comparison between Karegnondi Water Authority (KWA) and DWSD. Analysis suggests that the KWA option is the cheaper option for the City of Flint.

March 2013 – DWSD contacts the City of Flint to begin direct negotiations on a contract extension. Multiple options are provided to the Flint Emergency Manager (EM) Ed Kurtz.

March 26, 2013 – The Flint City Council endorses joining KWA.

April 11, 2013 – State Treasurer Andy Dillon authorizes Flint EM Ed Kurtz, pursuant to Section 12(3) of P.A. 436 of 2012, to enter into a contract with KWA if a final offer from DWSD is either not received for rejected in good faith based upon specific objections.

April 15, 2013 – DWSD provides a best and final offer to the City of Flint. Analyses by Flint EM Ed Kurtz, the Department of Environmental Quality and Treasury's Office of Fiscal Responsibility independently conclude that the KWA option is cheaper for the City of Flint.

April 16, 2013 –Flint EM Ed Kurtz informs the State Treasurer that the City will join KWA. This decision was officially announced May 1, 2013.

April 17, 2013 – DWSD transmits a letter to Flint EM Ed Kurtz terminating service to the City of Flint, effective April 17, 2014.

June 2013 – Groundbreaking for the Karegnondi Water Authority. Flint also requests full time use of the Flint Water Treatment Plant with Flint River water as a source.

June 28, 2013 – Financing Contract between the City of Flint and KWA is approved. Effective September 1, 2013. This document was signed by EM Mike Brown.

February 19, 2014 – The KWA Board of Directors adopts Resolution 2014-01, authorizing KWA to bond for water line construction on-behalf of the City of Flint.

April 17, 2014 – Water service from DWSD officially ends. The City of Flint also conducts two separate public forums regarding the use of Flint River water, upgrades to the City's water system and the overall cost of the switch to KWA.

April 25, 2014 – City conducts public event marking the transition to the use of Flint River water. DEQ information shows that transition complete by May 2015.

March 3, 2015 – Flint EM Jerry Ambrose provides a memorandum to Deputy State Treasurer Wayne Workman stating that a reconnection to DWSD will cost the City $10.1M/year and that water purchases could be as high as $1M/month.

March 12, 2015 – The City of Flint hires Veolia to conduct an operational evaluation of the City's water system.

From: Baird, Richard (GOV)
Sent: Wednesday, September 30, 2015 10:34 AM
To: Frank Brown (fbrown@generalatlantic.com)
Cc: Hollins, Harvey (GOV)
Subject: FW: Flint water background information
Attachments: Flint water FAQs (00000004).pdf; Sharable Flint Lead TP 092415 (00000002).docx

Frank:

We have a situation in Flint, Michigan that is beginning to get national attention and could be an opportunity for Home Depot. 18 months ago, Flint switched its water supply from Detroit Water (the distance and pumping costs of going uphill made it quite expensive) to the Flint River as a temporary answer, until they could finish the construction to get their water from Lake Huron (Karagondi Water System). The corrosive attributes of the River water have exacerbated the lead deposit leaching into homeowner pipes and there is concern around lead poisoning, especially for infants.

The corporate community is rallying to address the problem. Meijer donated 1500 water filters to low income residents and GM is about to announce a donation of between 5,000 and 10,000 filters. I do not yet know where GM is getting the filters from, but I was thinking that Home Depot might want to join the effort with a donation, supply chain discounting assistance, or some combination of activity that could help Flint residents. Harvey Hollins is our point person for this effort, since he is the Director of Urban Initiatives for Governor Snyder. I have copied him here.

If you could get this into the hands of the right people and see if there is interest in speaking with Harvey, I would be very appreciative. Thanks and take care.

Regards,

Rich

From: Murray, David (GOV)
Sent: Wednesday, September 30, 2015 9:35 AM
To: Baird, Richard (GOV)
Subject: Flint water background information

Hi Rich,

These are two documents that I think are helpful addressing the questions about lead and Flint water overall, prepared by DEQ and DHHS. These were intended for internal use, so please ask our partners to not share them beyond the people on their teams making the decisions.

Please let me know if you need anything else.

Dave

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder

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Frequently Asked Questions:
Water Lead Levels in the City of Flint
September 2015

How can lead get into drinking water?
Lead detections in Flint drinking water exist at the home level. Sampling at the Flint Water Treatment Plant has shown no lead in its treated water. However, this contaminant leaches into water from a home's lead service lines, lead solder, and leaded plumbing materials including fixtures, faucets, and fittings.

Does the city meet federal drinking water standards for lead and copper?
Yes, the city is meeting state and federal guidelines for lead and copper.

The City of Flint has regularly monitored for lead and copper since federal law began requiring it in 1991.

When the City changed water sources in May 2014, state and federal law required the city to sample for lead and copper for a full year to determine how the water may be interacting with residential lead plumbing to increase lead levels. While the city's results show residential lead levels below the federal threshold for immediate response activities, Flint is moving quickly to optimize corrosion control measures in its water system.

Some individual homes showed high numbers for lead. Isn't that a concern?
For the homeowner, yes it is. There is no "safe" level for lead, and while the leading cause of lead poisoning around the country is lead paint, any source of lead ingestion is worthy of concern.

But the State and federal guidelines for lead and copper acknowledge an important reality: Any home that has a lead service connection or lead plumbing will impart some varying amount of lead into the home's water. The only way to eliminate lead in a home water system is to remove lead plumbing or replace lead service connections to the city system.

The lead and copper rule requires the local operator to sample dozens, sometimes hundreds of homes in the service area to get a general sense of how the water supply is interacting with lead plumbing and service connections. The tests are done specifically at homes with lead service connections. Individual results vary and all participants are

Are there other ways the city monitors for lead exposure?
The County Health Department, overseen statewide by the Michigan Department of Health and Human Services, regularly monitors blood levels in children throughout Michigan communities. The leading cause of lead poisoning is exposure to lead paint.

Blood lead level testing results for the 12-month period just after the City of Flint changed its water source (May 2014 – April 2015) showed no significant change in the pattern of blood lead levels in Flint, compared to the previous three years. This data suggests the recent change in water source by the City of Flint has not contributed to an increase in lead exposure throughout the community.

How does the state decide if the water is creating a lead problem?
Compliance with the federal lead rule is based on a 90th percentile calculation. If more than 10 percent of samples report lead above the federal action level of **15 parts per billion**, a water supply has an "action level exceedance." An exceedance is not a violation. It triggers other requirements which could include public notification, additional water quality sampling, and possibly further treatment.

While some of Flint's individual samples exceeded the 15 parts-per-billion lead action level, compliance is based on **the 90th percentile of samples**. The City of Flint's 90th percentile level has ranged between 0 parts per billion in 2008 and 2011, and 15 parts per billion in 1992, but never exceeded the action level.

The two most recent sampling periods, in 2014 and 2015, were 6 parts per billion and 11 parts per billion, respectively.

Did the city use <u>every</u> sample they got back?
Sampling requirements for lead and copper are designed to target the most common pathways to lead ingestion in homes with the least protection. The sample must be collected from a commonly used kitchen or bathroom tap, and in accordance with the provided sampling instructions. Homes that employ filtration or additional treatment cannot be included. Samples must also be collected within the established monitoring period.

I have a lead service connection or lead plumbing. What should I do?
Replacement is the only way to eliminate lead exposure. However, here are some interim steps homeowners can take to reduce it:

Flush pipes before drinking, and only use cold water for consumption.

The more time water has been sitting in your home's pipes, the more lead it may contain. When water in a particular faucet has not been used for six hours or longer, "flush" cold-water pipes by running the water until it becomes as cold as it will get. This could take five to 30 seconds if there has been recent water use elsewhere in the home, such as showering or flushing toilets. Otherwise, it could take two minutes or longer.

Use only water from the cold-water tap for drinking, cooking, and especially for making baby formula. Hot water is likely to contain higher levels of lead.

Who is responsible for replacement of leaded materials?

Replacement of service pipes on private property and any leaded plumbing materials within the home is a **homeowner's responsibility**. The City of Flint owns the service pipe from the water main to the curb stop valve, and that is **the City's responsibility**. This valve is normally located two feet in from the street curb. From there to the house is private property and the responsibility of the homeowner.

Why doesn't the city at least replace its portion of lead service lines?

Partial lead service line replacement has been shown to mobilize more lead and make the situation worse. Only full lead service line replacement has been demonstrated effective in achieving long-term reductions in drinking water lead levels.

What is the City's timeline for installation of corrosion control treatment?

The federal government allows the steps to complete the installation of optimal corrosion control treatment and follow-up monitoring to take up to five years.

However, the City of Flint has committed to completing installation of Optimized Corrosion Control Treatment in **less than six months**.

What will happen when Flint joins the Karegnondi Water Authority next year?

The City has committed to having Optimized Corrosion Control Treatment in place prior to its connection with the Karegnondi Water Authority (KWA). The water provided by KWA will come from a new source, Lake Huron. The city will continue its lead and copper sampling every six months. Additionally, the city's water treatment plant will continue to operate with uninterrupted Optimized Corrosion Control Treatment.

How long would it take to replace lead service lines throughout Flint?

The city has about 32,900 service connections in total. **More than 15,000** of these connections are considered lead service lines. Even if many crews were contracted, it would likely take up to 15 years to complete this work.

What would it cost to replace the lead service line at my house?

Average costs to replace a lead service line at an individual home range from $2,000 to $8,000. Costs vary depending on the length and size of service line that is needed, as well as the ground cover and soil conditions encountered.

With more than 15,000 lead service lines at an estimated average cost of $4,000 for each replacement, total cost could **be $60 million or more**.

Blood Lead Levels in Flint background information
September 24, 2015

- Promoting the health of our residents is a statewide priority – a priority that includes ensuring clean, safe drinking water for all residents and especially children.
- The results of the Hurley Children's Hospital are under review by the Michigan Department of Health and Human Services.
- The analysis that Hurley conducted is different from the way MDHHS has analyzed data regarding blood lead levels in Flint.
- MDHHS is looking to see if we can replicate the results of the Hurley study to see how they achieved their results.

MDHHS Blood Lead Testing Results in Flint

- MDDHS data shows a comprehensive look at the data since 2010, years before the change in Flint's water source occurred in April 2014.
- Each year shows a seasonal increase in childhood lead poisoning in the summer months, the highest seasonal increase of which occurred in 2010.
- If elevated blood lead levels were being driven by the change in water, we would expect to see the elevated levels remain high after the change in water source, rather than follow the seasonal pattern as they did by decreasing in the fall months.
- All data included in the MDHHS analysis were reported by laboratories directly to MDHHS, in accordance with State Law.

Differences in Analysis

- MDHHS data provides a much more robust picture of the entire blood lead levels for the Flint area, and specifically, accounts for data over the full course of the past five years.
- Looking at the past five years as a whole provides a much more accurate look at the seasonal trends of lead in the area.
- Seasonal exposure is higher in the summer for a variety of reasons including children playing outside in the soil, and when windows are open and lead paint is more likely to be in the air. This seasonal increase would be unrelated to the water system.
- Our data includes children from the entire city, including all medical facilities, rather than just Hurley, has a larger age group of children, and includes a much larger sample size.
- The MDHHS analysis looks specifically at the first elevated blood lead level for each child, which provides an accurate picture of when first exposure occurred.
- The Hurley data includes a smaller sample size, much more limited time period (January-September of 2013 and 2015 only), and a smaller age group of children.

WIC Children

- In homes with infants on WIC, if the household has documentation from an official source of unsanitary water supply issues, that family may be eligible to receive ready-to-feed formula. Families should contact WIC to see if they are eligible.
- Each household would have to be looked at on an individual basis.
- WIC cannot cover bottled water.

From: Hollins, Harvey (GOV)
Sent: Friday, March 28, 2014 10:45 AM
To: Larkin, Brian (GOV); Clayton, Stacie (GOV)
Subject: Re: MLive.com: State says Flint hasn't applied for permit to use river as drinking water source

Kind of a little oversight. Please contact Wayne Workman re the solution and let me know.

Best,
Harvey Hollins

-----Original message-----
From: "Larkin, Brian (GOV)" <larkinb@michigan.gov>
To: "Hollins, Harvey (GOV)" <hollinsh@michigan.gov>, "Clayton, Stacie (GOV)" <claytons3@michigan.gov>
Sent: Fri, Mar 28, 2014 11:36:08 GMT+00:00
Subject: MLive.com: State says Flint hasn't applied for permit to use river as drinking water source

FYI

A story from the iPad edition of the MLive.com:

State says Flint hasn't applied for permit to use river as drinking water source

Download more MLive.com apps from the iTunes Store today!

Brian Larkin
Associate Director
Governor's Office of Urban and Metropolitan Initiatives
(810) 820-1807

125 E Union St.
Flint, MI 48502

From: Hollins, Harvey (GOV)
Sent: Friday, September 19, 2014 8:23 AM
To: Murray, David (GOV)
Subject: Per our conversation
Attachments: Boil Water Advisory Review_White paper.docx

Best,
Harvey Hollins

City of Flint
September 5th 2014 Boil Water Advisory Review

OVERVIEW

- On Friday September 5th the City of Flint issued a boil water advisory to residents in two of ten test areas around the city.
- The advisory was due to multiple positive tests for "total coliform" and the area covered approximately 9 square miles.
- On Sunday September 7th the City expanded the advisory to include another of the ten test areas due to a subsequent positive test.
- The boil water advisories were lifted on Tuesday September 9th at 5:00 after consultation with the DEQ.

BACKGROUND

- State of Michigan Regulations requires that the City of Flint Water Treatment Plant perform testing of its water distribution system on a routine basis in ten different locations around the City.
- The tests take twenty four hours to produce valid results and are sent directly to the Department of Environmental Quality for review.
- Test results which show positive for "Ecoli" or "fecal coliform" trigger boil water notices for the test area and the advisories usually remain in effect until three consecutive tests return negative results.
- A single positive test for "total coliform" does not generally result in a boil water advisory, rather it indicates that the environment is conducive for bacteria.
- Typically, investigation into possible causes followed by corrective measures such as flushing the affected area with open hydrants will cleanse the system.
- This process is overseen by an employee who is required to hold an F-1 State License and is listed as the Operator in Charge of the Water Plant and an employee who holds an S-1 State License which is required to maintain distribution systems of this municipal size.
- The City of Flint has over 500 miles of pipe in its distribution system, much of which is over 70 years old.
- The City of Flint has over ten-thousand valves throughout its distribution system.
- The City of Flint has a professional reliability study of its system, that was updated in December 2013.

PROBLEM

- ❖ After detecting the initial positive test for total coliform, normal procedures did not clear the condition and multiple positive tests ensued.
- ❖ The continued positive total coliform tests were the cause for issuing the boil water notice.
- ❖ Additional discoveries showed that residual chlorine levels in the affected area were considerably lower than normal.

SOLUTION

- ✓ On Monday September 8th the City convened all licensed personnel, Utility Supervisors, and DPW Director to a single meeting location and held a brainstorming session with the DEQ on conference call.
- ✓ It was agreed that while not totally isolated, the concern was mainly present in a specific large transmission line that ran through all positive testing areas.
- ✓ It was determined to expand the hydrant flushing outside of the immediate impact area.
- ✓ It was found that a 24" valve which feeds this transition main was broken in the OFF position outside of the immediate impact area.
- ✓ The broken valve was preventing fresh water from being pushed directly into the impacted area while causing water to travel from the water plant around the entire city and preventing adequate circulation of fresh water.
- ✓ In repairing the broken valve, virtually all of the symptoms were erased over a 24 hour period and the chlorine count has steadily risen back to normal levels throughout the transmission main.

CONCLUSION

- ✓ The City was in direct contact with DEQ personnel daily.
- ✓ The positive tests were for "total coliform" only.
- ✓ The following statement about total coliform was approved by the DEQ and made in writing to the public as part of the recent boil water.

Total coliform bacteria are generally not harmful themselves. Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present.
Usually, coliforms are a sign that there could be a problem with the treatment or distribution system (pipes). Whenever we detect coliform bacteria in any sample, we do follow-up testing to see if other bacteria of greater concern, such as fecal coliform or E. coli, are present. We did not find any of these bacteria in our subsequent

testing. If we had, we would have notified you immediately. However, we are still finding coliforms in the drinking water.

- ✓ The City of Flint is in the first year of strategic budgetary investment in an infrastructure strategy.
- ✓ The City of Flint infrastructure strategy has been, and will continue to be developed with state licensed employees, industry experts, and proven experienced consultants.

From: Hollins, Harvey (GOV)
Sent: Friday, September 19, 2014 8:25 AM
To: Wyant, Dan (DEQ)
Subject: Flint
Attachments: Boil Water Advisory Review_White paper.docx

Dan,
What is DEQ's take on this?

Best,
Harvey Hollins

City of Flint
September 5th 2014 Boil Water Advisory Review

OVERVIEW

- On Friday September 5th the City of Flint issued a boil water advisory to residents in two of ten test areas around the city.
- The advisory was due to multiple positive tests for "total coliform" and the area covered approximately 9 square miles.
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- ✓ The City of Flint infrastructure strategy has been, and will continue to be developed with state licensed employees, industry experts, and proven experienced consultants.

From: Hollins, Harvey (GOV)
Sent: Tuesday, January 27, 2015 2:30 PM
To: Wurfel, Sara (GOV)
Cc: Agen, Jarrod (GOV); Murray, David (GOV); Clayton, Stacie (GOV)
Subject: RE: Flint water issue

Stacie will set it up.

-----Original Message-----
From: Wurfel, Sara (GOV)
Sent: Tuesday, January 27, 2015 2:27 PM
To: Hollins, Harvey (GOV)
Cc: Agen, Jarrod (GOV); Murray, David (GOV); Clayton, Stacie (GOV)
Subject: Flint water issue

Hi there Harvey -

Just following up on this per brief conversation/mention at yesterday's senior staff meeting and Dave's voice mail to you as well.

I believe you had indicated you had a meeting on this tomorrow, yes?

We need to touch base and get all facts on this situation ASAP. Turning into unfortunate and unnecessary PR issue that we're trying to work with Treasury and DEQ to be on top of, stem, find resolution, etc.

Please call our office today to connect with Dave (as our lead on this) or myself or Jarrod if he's not available for some reason.

Thanks much,
SW

Sent from my iPad

From: Hollins, Harvey (GOV)
Sent: Friday, January 30, 2015 12:21 PM
To: 'Maxine Murray'
Cc: Jerry Ambrose; Clayton, Stacie (GOV)
Subject: RE: Independent Water Analysis

Thank you!

From: Maxine Murray [mailto:mmurray@cityofflint.com]
Sent: Friday, January 30, 2015 9:28 AM
To: Hollins, Harvey (GOV)
Cc: Jerry Ambrose; Clayton, Stacie (GOV)
Subject: Independent Water Analysis

Good morning Mr. Hollins:

Emergency Manager Ambrose asked me to send the attached information.

Thank you.

--
Maxine Murray
Executive Assistant to
Mayor Dayne Walling
Gerald Ambrose, Emergency Manager
1101 S. Saginaw Street
Flint, MI 48502
810.237.2035 Telephone
810.766.7218 Fax

From: Hollins, Harvey (GOV)
Sent: Monday, February 09, 2015 1:57 PM
To: 'Kelly Rossman-McKinney'; Murray, David (GOV)
Cc: Clayton, Stacie (GOV)
Subject: RE: Flint Water

Kelly,
I am deferring this to our communications team. Let me know if you connect with them.

Best,
Harvey

From: Kelly Rossman-McKinney [mailto:krossman@truscottrossman.com]
Sent: Friday, February 06, 2015 3:22 PM
To: Murray, David (GOV); Hollins, Harvey (GOV)
Cc: Clayton, Stacie (GOV)
Subject: Flint Water

Dave & Harvey: We are working with Veolia North America, the water consulting team Flint has hired to "assess the situation." We're planning to hold a media roundtable with city officials on Tuesday to introduce the Veolia team to local reporters. Gerry Ambrose suggested we invite some of the folks you invited to attend the newser earlier this week. Is that a list you can share with me or would it be better for the invite to come from you or the EM directly? I don't have a specific time yet but can provide that information for you when it is available. What do you think?

Kelly

PS I forgot to say thanks!!!!

Kelly Rossman-McKinney
CEO
Truscott Rossman • truscottrossman.com
Boji Tower • 124 W. Allegan St., Ste. 800 • Lansing, MI 48933
200 Renaissance Center, Ste. 3160 • Detroit, MI 48243
125 Ottawa Ave. N.W., Ste 295 • Grand Rapids, MI 49503

Cell: PPI
Office: (517) 487-9320
Fax: (517) 487-5060

From: Hollins, Harvey (GOV)
Sent: Tuesday, February 10, 2015 11:45 AM
To: Muchmore, Dennis (GOV)
Subject: Not Responsive and Flint

Chief:

Not Responsive

Flint water: on the senior staff call yesterday, you mentioned that you would be distributing Treasury's assessment to the group. I haven't seen anything from Treasury on this, do you have the information requested?

Best,

Harvey

From: Hollins, Harvey (GOV)
Sent: Sunday, February 15, 2015 10:46 PM
To: Saxton, Thomas (Treasury); Baird, Richard (GOV); Muchmore, Dennis (GOV)
Cc: Workman, Wayne (TREASURY)
Subject: RE: Re: Flint

Tom,
Thanks. I'd like to get such a table out to the Flint stakeholders; however, before doing so, the table probably needs to be modified to better reflect the comparison between Flint River and DWSD.

--HH

From: Saxton, Thomas (Treasury)
Sent: Friday, February 13, 2015 8:10 PM
To: Baird, Richard (GOV); Muchmore, Dennis (GOV); Hollins, Harvey (GOV)
Cc: Workman, Wayne (TREASURY)
Subject: Re: Re: Flint

You may have already seen this (below) blurb from MLive. Also, I had a call from Jerry A. He indicated Veolia is coming to the same conclusion that it may involve tweaking of the process vs some major undertaking. We will know more next week.

I have also attached a table Wayne's & Jerry's staff put together. My sense is there is still this thought that hooking back up to DWSD is cost neutral or nearly so. Hopefully this table shows that is not the case. The info is consistent with we sent you the other day i.e., there is an estimated 30% rate impact.

FLINT, MI – A water quality expert who has spent years working with environmentalist Erin Brockovich is expected to speak at two events in Flint Saturday, Feb. 14.
Robert W. Bowcock, founder of Integrated Resource Management, met with Mayor Dayne Walling, Councilman Wantwaz Davis and others Friday, Feb. 13.
Bowcock said earlier this week that he believes small treatment and distribution adjustments could help fix some of Flint's water quality problems. He toured the city's water treatment plant Friday.
Walling declined to comment on his conversation with Bowcock, but city Councilman Eric Mays said he is anxious to hear his assessment and recommendations.

Davis said Bowcock was straightforward in giving his opinion that the city can cut back on some of the chemicals being used to treat water.

City spokesman Jason Lorenz issued a statement, saying, "The city of Flint honored a request for a tour of its water treatment plant submitted by Mr. Bowcock, as it has done with individuals and groups in the past.

"(Director of Public Works) Director Howard Croft and F-1 Licensed Treatment Operator Mike Glasgow guided the tour and answered all of Mr. Bowcock's questions. Tours of the Water Treatment Plant can be arranged by appointment for interested groups by calling 810-787-6537."

Bowcock is scheduled to join in a march for water quality through downtown Flint, which is planned to begin at 1 p.m. Saturday at Flint City Hall, 1101 S. Saginaw St., and end at The Durant.

Bowcock is also scheduled to speak at a forum at the Saints of God Church, 2200 Forest Hill Ave., Flint, from 3-4:15 p.m.

Brockovich, portrayed by Julia Roberts in a 2000 movie about her fight over the pollution of a California town, has been speaking out on Facebook about Flint's water issues for several weeks. Today, she posted a photo of Bowcock, Davis and march organizer Melissa Mays inside the Flint water plant, saying she was "so honored this community would seek my help ... and I am glad I could send Bob to get it done."

In addition to customer complaints about the price and quality of the water, there were several boil water advisories in Flint in 2014 and the city was found in violation of the Safe Drinking Water Act for excess total trihalomethanes in the water supply last year.

The city began using the Flint River as its source of drinking water in April after 50 years of handling only the distribution of already-treated Lake Huron water purchased from the Detroit Water and Sewerage Department.

Since that time, some citizens and members of the City Council have advocated abandoning the use of the river and purchasing lake water from the Detroit until the Karegnondi Water Authority pipeline is complete.

The city and Genesee County are partners in the KWA.

.

From: Baird, Richard (GOV)
Sent: Thursday, February 12, 2015 11:34 PM
To: Muchmore, Dennis (GOV); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Fwd: Re: Flint

Sent from my Verizon Wireless 4G LTE DROID
---------- Forwarded message ----------
From: Robert Daddow <daddowr@oakgov.com>

Date: Feb 12, 2015 11:32 PM
Subject: Re: Flint
To: "Baird, Richard (GOV)" <bairdr@michigan.gov>
Cc:

Should not have thought politically but financially in the first place. This is very doable. We need to chat. Rjd

On Feb 12, 2015, at 10:32 PM, Bart Foster <bfoster@fostergroupllc.com> wrote:

> Actually, my quick take is about 8%.
>
> Some background:
> When Flint left, the annual revenue profile for the Water System was initially reduced by $12.5 million, However, we immediately recalculated the rate for Genesee County (recognizing their higher demands), to effectively "claw back" about $2 million of the reduction, so the net Flint impact is ~ $10.5 million, or just under 2.5% of the (reduced) Water System rate revenue. Assuming that same amount could be replaced, and all else being equal, the "system rate increase" could be reduced by about 3 percent, with a bit more of the reduction occurring in the suburban wholesale rate structure. Safe to say that (again, absent any other changes) the average suburban water rate increase would be closer to 8 percent compared to the current 11.1%.
>
> Hope this helps . . .
> --
> Bart Foster
> President
> THE FOSTER GROUP
> (913) 345-1410
> (913) 345-1640 fax
> Not Responsive cell
> bfoster@fostergroupllc.com <mailto:bfoster@fostergroupllc.com>
> *Please note that the information in this message along with any attachments are intended for the exclusive use of the addressee and may contain confidential or privileged information. If you are not the intended recipient, please do not forward, copy or print the message or its attachments: notify me at the above address and delete this message and any attachments.*
> *Thank you.*
>
> On Feb 12, 2015, at 7:02 PM, Bart Foster <bfoster@fostergroupllc.com> wrote:
>
> Bob - in transit but will review and reply this evening.
>
> Sent from my iPhone
>
> On Feb 12, 2015, at 3:44 PM, Daddow, Robert <daddowr@oakgov.com> wrote:
>
> > Nikki / Bart – don't need a hard and fast number on this. However, it would seem to me that in a fixed cost system such as water, if Flint were to be hooked up again at the $847K / month cited in Ms. McCormick's January 12th memorandum and after the release of the rates yesterday, bringing Flint back would – on a marginal cost basis –

serve to mitigate the wholesale (suburban) customer rate increase of 11.1% cited in yesterday's presentation. Without going into a whole lot of detailed calculations (unless necessary), what would the impact of the inclusion of Flint starting say on July 1, 2015 (hypothetical date) be on the rate increase presently now in the public? A revised increase of what – 10.6% - looking for a high level sensitivity analysis here. Can you help? RJD

From: Hollins, Harvey (GOV)
Sent: Monday, February 16, 2015 5:21 PM
To: 'Elizabeth Murphy'
Cc: 'Clayton, Stacie (GOV)'
Subject: RE: Flint Water Advisory Committee

Liz,
Thanks for the invite. I am willing to participate; however, I would like to speak with the EM first. Stacie will contact you tomorrow.
Best,
HH

From: Elizabeth Murphy [mailto:emurphy@cityofflint.com]
Sent: Monday, February 16, 2015 3:30 PM
To: Hollins, Harvey (GOV)
Subject: Flint Water Advisory Committee

Dear Mr. Hollins,
The City of Flint is creating a Water Advisory Committee and you are invited to participate. Please see the attached letter for more details.

We look forward to your agreement to participate by responding to Mayor@cityofflint.com by Friday, February 20, 2015.

--
Liz Murphy
Assistant to the Emergency Manager
City of Flint
810 237 2025

From: Hollins, Harvey (GOV)
Sent: Wednesday, February 18, 2015 2:35 PM
To: Gerald Ambrose (gambrose@cityofflint.com)
Subject: FW: Re: Flint
Attachments: DWSD Switch Impact.xlsx

From: Hollins, Harvey (GOV)
Sent: Wednesday, February 18, 2015 10:22 AM
To: Saxton, Thomas (Treasury); Baird, Richard (GOV); Muchmore, Dennis (GOV)
Cc: Workman, Wayne (TREASURY)
Subject: RE: Re: Flint

Tom,
What are the total revenues collected from water and sewer rates for the following months: 9/14, 10/14, 11/14, 12/14?

To get a handle on the last table you sent Friday that was attached to your communication below, I attached an excel spreadsheet to help me understand this better. The yellow highlighted cell is where I need data filled in. I broke up the potential reduction ($3m and $8.4m) and spread them into the monthly and annual even though is sounds like the $8.4 million for professional services is a one-time or short-term expense. The pink highlight is the % increase in rates base on the table you sent last Friday which is different from the 24% rate increase I calculated…so where did I error?

Assuming there are fixed costs in the current rates via the Flint river, what are they?

Thanks,
Harvey

From: Hollins, Harvey (GOV)
Sent: Sunday, February 15, 2015 10:46 PM
To: Saxton, Thomas (Treasury); Baird, Richard (GOV); Muchmore, Dennis (GOV)
Cc: Workman, Wayne (TREASURY)
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Cc: Workman, Wayne (TREASURY)
Subject: Re: Re: Flint

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Since that time, some citizens and members of the City Council have advocated abandoning the use of the river and purchasing lake water from the Detroit until the Karegnondi Water Authority pipeline is complete.

The city and Genesee County are partners in the KWA.

.

From: Baird, Richard (GOV)
Sent: Thursday, February 12, 2015 11:34 PM
To: Muchmore, Dennis (GOV); Saxton, Thomas (Treasury); Workman, Wayne (TREASURY)
Subject: Fwd: Re: Flint

Sent from my Verizon Wireless 4G LTE DROID
---------- Forwarded message ----------
From: Robert Daddow <daddowr@oakgov.com>
Date: Feb 12, 2015 11:32 PM
Subject: Re: Flint
To: "Baird, Richard (GOV)" <bairdr@michigan.gov>
Cc:

Should not have thought politically but financially in the first place. This is very doable. We need to chat. Rjd

On Feb 12, 2015, at 10:32 PM, Bart Foster <bfoster@fostergroupllc.com> wrote:

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> When Flint left, the annual revenue profile for the Water System was initially reduced by $12.5 million, However, we immediately recalculated the rate for Genesee County (recognizing their higher demands), to effectively "claw back" about $2 million of the reduction, so the net Flint impact is ~ $10.5 million, or just under 2.5% of the (reduced) Water System rate revenue. Assuming that same amount could be replaced, and all else being equal, the "system

rate increase" could be reduced by about 3 percent, with a bit more of the reduction occurring in the suburban wholesale rate structure. Safe to say that (again, absent any other changes) the average suburban water rate increase would be closer to 8 percent compared to the current 11.1%.

Hope this helps . . .

--

Bart Foster
President
THE FOSTER GROUP
(913) 345-1410
(913) 345-1640 fax
PPI bell
bfoster@fostergroupllc.com <mailto:bfoster@fostergroupllc.com>

Please note that the information in this message along with any attachments are intended for the exclusive use of the addressee and may contain confidential or privileged information. If you are not the intended recipient, please do not forward, copy or print the message or its attachments: notify me at the above address and delete this message and any attachments.
Thank you.

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Sent from my iPhone

On Feb 12, 2015, at 3:44 PM, Daddow, Robert <daddowr@oakgov.com> wrote:

> Nikki / Bart – don't need a hard and fast number on this. However, it would seem to me that in a fixed cost system such as water, if Flint were to be hooked up again at the $847K / month cited in Ms. McCormick's January 12th memorandum and after the release of the rates yesterday, bringing Flint back would – on a marginal cost basis – serve to mitigate the wholesale (suburban) customer rate increase of 11.1% cited in yesterday's presentation. Without going into a whole lot of detailed calculations (unless necessary), what would the impact of the inclusion of Flint starting say on July 1, 2015 (hypothetical date) be on the rate increase presently now in the public? A revised increase of what – 10.6% - looking for a high level sensitivity analysis here. Can you help? RJD

	B	C	D	E	F	G	H
2		Current Operations		DWSD Reconnect		Impact on Switch to DWSD on the FY 15 Flint Budgeted Water Revenue Set at $37,000,000	% Rate Increase needed to adjust to DWSD Switch
3		Monthly	Annual	Monthly	Annual		
4	Water Usage MCF	71,594	859,128	71,594	859,128		
5	Price Per MCF			$ 14.92	$14.92		
6							
7	Cost of Water Usage per MCF			$ 1,068,182.48	$ 12,818,189.76	$ 12,818,189.76	34.64%
8	Fixed Charge/Month			$ 846,700.00	$ 10,160,400.00	$ 22,978,589.76	62.10%
9	Flint Incremental Cost of Treatment Plant Operation (to continue as a back-up only)	$ 239,587.00	$ 2,875,044.00	$ (239,587.00)	$ (2,875,044.00)	$ 20,103,545.76	54.33%
10	Flint Set aside	$ 250,000.00	$ 3,000,000.00	$ (250,000.00)	$ (3,000,000.00)	$ 17,103,545.76	46.23%
11	Flint Professional Services	$ 700,000.00	$ 8,400,000.00	$ (700,000.00)	$ (8,400,000.00)	$ 8,703,545.76	23.52%
12	Cost of Water/Month Avg.			$ 725,295.48	$ 8,703,545.76	$ 8,703,545.76	23.52%
13							
14	Rate Increase if the New Fee Collection Level to Handle DWSD Additional Cost was $48,403,542					$ 11,403,542.00	30.82%

From: Hollins, Harvey (GOV)
Sent: Wednesday, February 18, 2015 3:08 PM
To: Saxton, Thomas (Treasury)
Subject: FW: Re: Flint

Tom,
FYI...I copied Ambrose on this request.
Harvey

From: Hollins, Harvey (GOV)
Sent: Wednesday, February 18, 2015 10:22 AM
To: Saxton, Thomas (Treasury); Baird, Richard (GOV); Muchmore, Dennis (GOV)
Cc: Workman, Wayne (TREASURY)
Subject: RE: Re: Flint

Tom,
What are the total revenues collected from water and sewer rates for the following months: 9/14, 10/14, 11/14, 12/14?

To get a handle on the last table you sent Friday that was attached to your communication below, I attached an excel spreadsheet to help me understand this better. The yellow highlighted cell is where I need data filled in. I broke up the potential reduction ($3m and $8.4m) and spread them into the monthly and annual even though is sounds like the $8.4 million for professional services is a one-time or short-term expense. The pink highlight is the % increase in rates base on the table you sent last Friday which is different from the 24% rate increase I calculated…so where did I error?

Assuming there are fixed costs in the current rates via the Flint river, what are they?

Thanks,
Harvey

From: Hollins, Harvey (GOV)
Sent: Sunday, February 15, 2015 10:46 PM
To: Saxton, Thomas (Treasury); Baird, Richard (GOV); Muchmore, Dennis (GOV)
Cc: Workman, Wayne (TREASURY)
Subject: RE: Re: Flint

Tom,
Thanks. I'd like to get such a table out to the Flint stakeholders; however, before doing so, the table probably needs to be modified to better reflect the comparison between Flint River and DWSD.

--HH

From: Saxton, Thomas (Treasury)
Sent: Friday, February 13, 2015 8:10 PM

To: Baird, Richard (GOV); Muchmore, Dennis (GOV); Hollins, Harvey (GOV)
Cc: Workman, Wayne (TREASURY)
Subject: Re: Re: Flint

You may have already seen this (below) blurb from MLive. Also, I had a call from Jerry A. He indicated Veolia is coming to the same conclusion that it may involve tweaking of the process vs some major undertaking. We will know more next week.

I have also attached a table Wayne's & Jerry's staff put together. My sense is there is still this thought that hooking back up to DWSD is cost neutral or nearly so. Hopefully this table shows that is not the case. The info is consistent with we sent you the other day i.e., there is an estimated 30% rate impact.

FLINT, MI – A water quality expert who has spent years working with environmentalist Erin Brockovich is expected to speak at two events in Flint Saturday, Feb. 14.
Robert W. Bowcock, founder of Integrated Resource Management, met with Mayor Dayne Walling, Councilman Wantwaz Davis and others Friday, Feb. 13.
Bowcock said earlier this week that he believes small treatment and distribution adjustments could help fix some of Flint's water quality problems. He toured the city's water treatment plant Friday.
Walling declined to comment on his conversation with Bowcock, but city Councilman Eric Mays said he is anxious to hear his assessment and recommendations.
Davis said Bowcock was straightforward in giving his opinion that the city can cut back on some of the chemicals being used to treat water.
City spokesman Jason Lorenz issued a statement, saying, "The city of Flint honored a request for a tour of its water treatment plant submitted by Mr. Bowcock, as it has done with individuals and groups in the past.
"(Director of Public Works) Director Howard Croft and F-1 Licensed Treatment Operator Mike Glasgow guided the tour and answered all of Mr. Bowcock's questions. Tours of the Water Treatment Plant can be arranged by appointment for interested groups by calling 810-787-6537."
Bowcock is scheduled to join in a march for water quality through downtown Flint, which is planned to begin at 1 p.m. Saturday at Flint City Hall, 1101 S. Saginaw St., and end at The Durant.
Bowcock is also scheduled to speak at a forum at the Saints of God Church, 2200 Forest Hill Ave., Flint, from 3-4:15 p.m.
Brockovich, portrayed by Julia Roberts in a 2000 movie about her fight over the pollution of a California town, has been speaking out on Facebook about Flint's water issues for several weeks.

Today, she posted a photo of Bowcock, Davis and march organizer Melissa Mays inside the Flint water plant, saying she was "so honored this community would seek my help ... and I am glad I could send Bob to get it done."

In addition to customer complaints about the price and quality of the water, there were several boil water advisories in Flint in 2014 and the city was found in violation of the Safe Drinking Water Act for excess total trihalomethanes in the water supply last year.

The city began using the Flint River as its source of drinking water in April after 50 years of handling only the distribution of already-treated Lake Huron water purchased from the Detroit Water and Sewerage Department.

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From: Hollins, Harvey (GOV)
Sent: Friday, February 20, 2015 12:57 PM
To: Elizabeth Murphy
Cc: Gerald Ambrose; Workman, Wayne (TREASURY)
Subject: RE: Flint Water Cost Analysis

Ms. Murphy,
Thank you. The calculations in the table was provided by treasury and I was seeking clarification. I am not a water expert, but I learned that typically, most rates have two components.

1. Fixed-cost recovery charge
This charge is based on the size of the water meter at the home or business. Most residential customers will have a meter between 5/8$^{th's}$ of an inch and 1 inch.

2. Consumption Charge
This charge is based on the amount of water used. The rate for usage is determined by the distance and elevation of the home or business from the water source.

MCF is used in many place for calculating rates; however, since Flint is currently not using this calculation, what are the cost components that make up the $149 avg. monthly charge to the resident?

Best,
Harvey

From: Elizabeth Murphy [mailto:emurphy@cityofflint.com]
Sent: Thursday, February 19, 2015 9:49 AM
To: Hollins, Harvey (GOV)
Cc: Gerald Ambrose; Workman, Wayne (TREASURY)
Subject: Flint Water Cost Analysis

Mr. Hollins,
Jerry Ambrose asked me to respond to your request for more information on the Flint water cost analysis chart which you sent him yesterday. Please see the attached chart; it contains an added analysis by Jerry. The sections for which you asked for data can not be provided as we don't calculate prices in the manner you are comparing.

Jerry's chart clearly represents what Flint has been talking about - a major increase in water rates would be necessary to pay the additional charge to purchase DWSD water.

--
Liz Murphy

Assistant to the Emergency Manager
City of Flint
810 237 2025

Message

From: Hollins, Harvey (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=HOLLINSH]
Sent: 2/20/2015 2:46:46 PM
To: Gerald Ambrose [gambrose@cityofflint.com]
CC: Elizabeth Murphy [emurphy@cityofflint.com]; Workman, Wayne (TREASURY) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=91104e2ff72646419e6955d950f6ec8a]
BCC: Muchmore, Dennis (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Muchmored]; Baird, Richard (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=Bairdr]
Subject: Re: Flint Water Cost Analysis

Jerry,
Thank you very much. I believe 1MCF equals 7480 gallons of water. If that is true then 10 units = 1 MCF.
Best,
Harvey

On Feb 20, 2015, at 1:40 PM, Gerald Ambrose <gambrose@cityofflint.com> wrote:
Harvey,

Quick response, subject to verification by Liz Murphy:

Components of the average charge:

$ 57.38 fixed-cost recovery charge
$ 91.63 consumption charge
$149.01

Consumption charge based on 7 units of water @$13.09 per unit

1 unit = 748 gallons of water

There may be a way to convert a unit into an MCF, but I do not know it.

Jerry

On Fri, Feb 20, 2015 at 12:56 PM, Hollins, Harvey (GOV) <hollinsh@michigan.gov> wrote:

Ms. Murphy,

Thank you. The calculations in the table was provided by treasury and I was seeking clarification. I am not a water expert, but I learned that typically, most rates have two components.

1. **Fixed-cost recovery charge**

This charge is based on the size of the water meter at the home or business. Most residential customers will have a meter between 5/8th's of an inch and 1 inch.

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This charge is based on the amount of water used. The rate for usage is determined by the distance and elevation of the home or business from the water source.

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Liz Murphy

Assistant to the Emergency Manager

City of Flint

810 237 2025

From: Hollins, Harvey (GOV)
Sent: Friday, February 20, 2015 5:08 PM
To: Workman, Wayne (TREASURY)
Subject: Re: Flint Water Cost Analysis

If 1 MCF = 100 ccf, then Flint rate payers are currently paying an equivalent of $187per MCF. I don't think that is true.

http://www.answers.com/Q/How_do_you_convert_mcf%27s_to_ccf%27s

Please let me know what you find.

> On Feb 20, 2015, at 2:55 PM, Liz Murphy <emurphy@cityofflint.com> wrote:
>
> You are off by a factor of 10 1 unit= 1ccf= 748 gal. 1 mcf = 100 ccf. Approximately I don't have info in front of me.
>
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>>
>> --
>> Liz Murphy
>> Assistant to the Emergency Manager
>> City of Flint
>> 810 237 2025
>>

From: Hollins, Harvey (GOV)
Sent: Friday, February 20, 2015 5:36 PM
To: Baird, Richard (GOV)
Subject: Re: Response to City of Flint Council Member Freeman

Thanks Rich. This confirms everything you said. If we switched back to DWSD I would want to get a handle on the rate. Hangs ancillaries in June 2015.

On Feb 20, 2015, at 4:32 PM, Baird, Richard (GOV) <bairdr@michigan.gov> wrote:

Sent from my Verizon Wireless 4G LTE DROID
---------- Forwarded message ----------
From: "Daddow, Robert" <daddowr@oakgov.com>
Date: Feb 20, 2015 3:51 PM
Subject: FW: Response to City of Flint Council Member Freeman
To: "Baird, Richard (GOV)" <bairdr@michigan.gov>, "Saxton, Thomas (Treasury)" <SaxtonT@michigan.gov>
Cc:

FYI -- just received the attached letter on Flint. RJD

From: Rechanda Willis [mailto:willis@dwsd.org]
Sent: Friday, February 20, 2015 3:23 PM
To: James Fausone; Robert Daddow
Subject: Response to City of Flint Council Member Freeman

Attached is copy of the response to City of Flint Council Member Joshua Freeman's February 3, 2015 letter.

Thank you

Rechanda L. Willis
Assistant to the Deputy Director/Chief Customer Service Officer
Detroit Water and Sewerage Department
735 Randolph Street - Room 506
Detroit, Michigan 48226
(313) 224-4785 (office)
(313) 224-6067 (fax)
willis@dwsd.org

<Flint.Councilmember Joshua M Freeman.Feb 19 2015.pdf>

Message

From: Hollins, Harvey (GOV) [/O=MIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=HOLLINSH]
Sent: 2/20/2015 5:45:33 PM
To: Liz Murphy [emurphy@cityofflint.com]
CC: Gerald Ambrose [gambrose@cityofflint.com]; Workman, Wayne (TREASURY) [/O=MIGOV/OU=EXTernal (FYDIBOHF25SPDLT)/cn=Recipients/cn=91104e2ff72646419e6955d950f6ec8a]
Subject: Re: Flint Water Cost Analysis

I look forward to what you find. In addition, could you translate to $13.09/ 7 units into price/MCF when you get the right conversion?

Best,
Harvey

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>> Liz Murphy
>> Assistant to the Emergency Manager
>> City of Flint
>> 810 237 2025
>>

From: Hollins, Harvey (GOV)
Sent: Thursday, February 26, 2015 11:16 AM
To: Gerald Ambrose
Cc: Workman, Wayne (TREASURY)
Subject: RE: Flint Water Advisory Committee

We'll do.

From: Gerald Ambrose [mailto:gambrose@cityofflint.com]
Sent: Thursday, February 26, 2015 11:03 AM
To: Hollins, Harvey (GOV)
Cc: Workman, Wayne (TREASURY)
Subject: Flint Water Advisory Committee

Good morning Harvey,

Glad to know that you have agreed to participate on the Advisory Committee. We have more than 40 individuals who have agreed to participate.

We extended an invitation to Rev. Harris as head of the Concerned Pastors on February 16. However, we did not receive any response. This morning we sent a notice of the meeting to all who were initially invited, including Rev. Harris. Can you confirm that Rev. Harris received the invitation and whether or not he or his designee will be participating?

Thanks!

Jerry Ambrose

From: Hollins, Harvey (GOV)
Sent: Thursday, February 26, 2015 11:29 AM
To: 'Clayton, Stacie (GOV)'
Subject: FW: Flint Water Advisory Committee Meeting Invitation

From: Elizabeth Murphy [mailto:emurphy@cityofflint.com]
Sent: Thursday, February 26, 2015 9:46 AM
Subject: Flint Water Advisory Committee Meeting Invitation

Thank you for your interest in participating in the Flint Water Advisory Committee. This committee has been formed to enhance the two-way communication between the City of Flint and our residents, businesses, and organizations. The committee will be made up of about 40 people who represent a wide variety of entities.

The first meeting will be held on **Thursday, March 5 from 2-4pm at the MTA Auditorium 1401 S. Dort Hwy. 48503**. This meeting will be facilitated and will be open to the public.

We look forward to your attendance and participation.

--
Liz Murphy
Assistant to the Emergency Manager
City of Flint
810 237 2025

From: Hollins, Harvey (GOV)
Sent: Thursday, February 26, 2015 11:29 AM
To: Workman, Wayne (TREASURY); Muchmore, Dennis (GOV); Baird, Richard (GOV)
Cc: Koryzno, Edward (Treasury); Saxton, Thomas (Treasury)
Subject: RE: Flint Water

Thank you.

From: Workman, Wayne (TREASURY)
Sent: Thursday, February 26, 2015 8:31 AM
To: Hollins, Harvey (GOV); Muchmore, Dennis (GOV); Baird, Richard (GOV)
Cc: Koryzno, Edward (Treasury); Saxton, Thomas (Treasury)
Subject: Flint Water

Harvey, Wanted to let you know I did get in touch with Jerry Ambrose last night and the City will be working on a side by side comparison of KWA vs DWSD and a simple explanation of the current finances of the water system. Hope the attachments Ed Koryzno sent again are helpful. One was the list of members in the new Water Advisory Committee and the second was the interim report from Veiola. Wayne

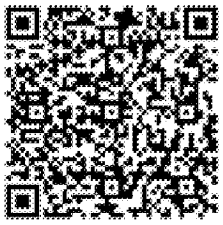
From: Hollins, Harvey (GOV)
Sent: Thursday, March 05, 2015 9:44 AM
To: Wurfel, Brad (DEQ)
Cc: Wyant, Dan (DEQ)
Subject: Items

Brad,
Per Monday's conference call, when can we expect to receive DEQ's review of the home filter units. Also, of the total notices/citations issued by DEQ to communities regarding drinking water around the state, what percent was issued to Flint in 2013 and 2104.

Best,

Harvey Hollins, Director
Office of Urban Initiatives

State of Michigan
Governor Rick Snyder
Executive Office
☎:: (313) 456-4994 (Office) | PPI (Cell)
✉:: 3044 W. Grand Blvd | Suite 14-650 | Detroit, MI 48202



From: Hollins, Harvey (GOV)
Sent: Friday, March 06, 2015 9:48 AM
To: McNeely, Jacques (DTMB)
Subject: Fwd: Tap Filters

Fyi

Best,
Harvey

Begin forwarded message:

From: "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
Date: March 5, 2015 at 4:26:25 PM EST
To: "Hollins, Harvey (GOV)" <hollinsh@michigan.gov>, "Wyant, Dan (DEQ)" <WyantD@michigan.gov>, "Agen, Jarrod (GOV)" <AgenJ@michigan.gov>
Cc: "Baird, Richard (GOV)" <bairdr@michigan.gov>, "Wurfel, Sara (GOV)" <WurfelS@michigan.gov>
Subject: FW: Tap Filters

Harvey,
Since group call Tuesday I have been working out how the filter idea might take shape.

To reiterate some key points so we're all clear:

1. DEQ does not inspect individuals' homes in a situation like this. It's the city's system, their operators handle all complaints and maintenance. In fact, our folks alerted me that the city's got union rules in place forbidding any contractor from touching the system.
2. DEQ's role is limited to ensuring the plant is operating to state standards and the water it produces meets potability standards. The aesthetic issues drawing concern from residents -- color, odor, taste -- stem from a variety of things. Age of the system and prolonged lack of upkeep is the leading factor. But in some areas, another contributing factor is changes in water flow -- source used to come from the south, now comes from the north, so some pipes are flowing in reverse, stirring up whatever was settled for a long time. In some sections, large pipes that historically served large communities are now serving a much smaller customer base, contributing to water stagnating in the system. In some areas, household connections are old and worn, so two neighbors may be having dramatically different experiences. My point is, the challenge takes many forms and there's no single solution that will bring sweeping change. The two consultants hired by the city have, as I understand it, both reinforced this idea in their assessments, so that's good.

3. The fix for this will be years in the making, truly. Even if full funding were available, 'big dig' projects can't all happen at once. The city needs to get an assessment of its infrastructure so it can prioritize its needs, and I understand they're working on that. In the near term, maintenance this spring / summer -- things like cleaning the pipes in key sections and flushing the system via the

hydrants – could offer some short term results. I know nobody wants to just wait for spring, but that is something important to keep in mind.

4. In the meantime, the group discussed possibly making home water filters available somehow. The National Safety Foundation is a Michigan company, headquartered and founded in Ann Arbor, that develops standards for all kinds of infrastructure. They're a globally recognized source for standard setting. A look at their site reveals there are myriad filtration options on the market and within each type (faucet mounted, whole house line filters, etc) there are filters that focus on different aspects of purification.

   If this idea begins to get legs, I'd suggest testing some different models on the local water at the customer level to see if they work. I'd also suggest the idea be focused on tap-mounted models to promote clean, appealing drinking water. And I'd suggest this program could be funded in whole or in part by the state, but would need to be administered by the city (reinforcing the fact that they own, operate and service the system). I've got some information on filter models below.

   Two more considerations: One, while the state has provided residents in some communities with bottled water in the past, it always has to do with their water being somehow contaminated – as in, some kind of chemical plume that impaired local drinking water sources. This would be the first time the state took steps to deal with what is an aesthetic issue on a system where the water is meeting state drinking water standards.

Water filter info:
ANSI NSF Standard 42 Covers bacteriostasis, taste and odor (associated only with chlorine removal), and other aesthetic conditions
http://standards.nsf.org/apps/group_public/download.php/19895/NSF_42-11%20-%20watermarked.pdf

ANSI NSF Standard 53 Covers health effects removal
http://standards.nsf.org/apps/group_public/download.php/19896/NSF_53-11a%20-%20watermarked.pdf

It is important to note that the filters are not required to meet all aspects of the standard, only the portions they want to make claims for. So product information for each filter must be reviewed to determine its applicability.

Most of these point of use filters are basic activated carbon filters that simply remove taste and odor specifically associated with chlorine, not other things like iron, manganese, hydrogen sulfide, etc. that can also impact taste and odor as well as color.

It is important to recognize that taste and odor is generally an individual preference and such standards have for the most part not been developed because groups of individuals may still consider taste and odor issues to exist even after levels for such a standard have been met.

Other considerations are that the test water for such filters attempting to meet the standard uses hardness levels of 170 mg/L or less. Flint's water at times may be above this level, which could then impact filter performance and longevity.

Most of these filters are designed to be replaced after 100 gallons or less of use, a period of about 3 months for most households. In addition the tests allow for initial pressure drops of up to 15 psi. This may limit use in households that already rely on minimum pressure within their household plumbing.

Regarding the health effects standards, as the Flint water system already meets such requirements, with the exception of the current TTHM locational running annual average, there is little point to the use of these filters for such a purpose.

To the point you'd asked about the other day, while Flint and Detroit are leading examples of unmaintained infrastructure, Flint is not alone by any means.

This recent infrastructure report card
http://www.infrastructurereportcard.org/michigan/michigan-overview/
Lists Michigan with a $13.8 Billion need over the next 20 years.

http://www.infrastructurereportcard.org/a/#p/state-facts/michigan

Here's a link to the 2009 Report Card for Michigan Infrastructure
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From the report:

"A significant portion of the state's primary distribution system is nearing 100 years old. CWS are facing a significant challenge to maintain the vast network of aging, underground infrastructure. Within the city of Detroit alone, approximately 80% of its distribution piping was installed prior to 1940, which is not unusual for CWS in Michigan."

"The age of the majority of the state's distribution system is the primary contributor to normal decay and failure. In many cases, pipe life has far exceeded useful service life. Much of the older water systems consist of undersized mains constructed of materials such as unlined cast iron pipe. Minor fluctuations in system flows or pressure may cause red water complaints and even result in pipe failure. All CWS should have routine flushing and valve maintenance programs; however many are hesitant due to the time and cost."

"Under the Stage 2 Disinfection Byproducts Rule, all CWS that disinfect are required to provide increased trihalomethane (THHM) and haloacetic acid (HAA5) monitoring due to the potential byproducts of chlorine reactions within the pipe system. Corrosion, scale, solid suspension on the interior sidewall of pipe, in addition to the age and condition of the system will require diligent rehabilitation investment to maintain system integrity."

"While better materials and advanced technology is available to replace the aging distribution system, resources remain scarce when compared with the magnitude of the rehabilitation task at hand. Too often, distribution system replacement costs are underfunded and the first item to be slashed when budget problems arise. Overall, distribution system maintenance is reactionary in much of the older systems. Since the majority of the antiquated system will require removal and replacement beyond the

CWS funding resources for systematic upgrade, a reactionary rehabilitation program is inevitable and must be funded accordingly."

Call or email me if you need anything further.
b

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713
PPI cell

From: Hollins, Harvey (GOV)
Sent: Friday, March 06, 2015 9:53 AM
To: Workman, Wayne (TREASURY); Saxton, Thomas (Treasury); Clayton, Stacie (GOV)
Subject: Fwd: Tap Filters

Stacie,
Brad sent this to part of the group on the call yesterday. I added Tom and Wayne from treasury. If I missed anyone else, please forward this to them.

Best,
Harvey

Begin forwarded message:

> **From:** "Wurfel, Brad (DEQ)" <WurfelB@michigan.gov>
> **Date:** March 5, 2015 at 4:26:25 PM EST
> **To:** "Hollins, Harvey (GOV)" <hollinsh@michigan.gov>, "Wyant, Dan (DEQ)" <WyantD@michigan.gov>, "Agen, Jarrod (GOV)" <AgenJ@michigan.gov>
> **Cc:** "Baird, Richard (GOV)" <bairdr@michigan.gov>, "Wurfel, Sara (GOV)" <Wurfels@michigan.gov>
> **Subject: FW: Tap Filters**
>
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> To reiterate some key points so we're all clear:
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majority of the antiquated system will require removal and replacement beyond the CWS funding resources for systematic upgrade, a reactionary rehabilitation program is inevitable and must be funded accordingly."

Call or email me if you need anything further.
b

Brad Wurfel
Communications Director
Michigan Department of Environmental Quality
517-284-6713
PPI cell

From: Hollins, Harvey (GOV)
Sent: Tuesday, March 17, 2015 4:32 PM
To: Thelen, Mary Beth (DEQ)
Subject: Re: SDWA Violations - Flint

Thank you

Best,
Harvey

On Mar 17, 2015, at 11:38 AM, Thelen, Mary Beth (DEQ) <THELENM2@michigan.gov> wrote:

> Dear Harvey,
>
> Director Dan Wyant asked that I send you the following information regarding Flint.
>
> As requested, the following information has been gleaned from our database regarding violations:
>
> In calendar years 2013 and 2014, we've identified 1100 violations (200 are standards violations, i.e., MCLs; and 910 other violations).
>
> This represents 326 community water supplies that had violations over these two years.
>
> Flint has 5 violations in those 2 years (TTHM MCLs at 2 sites and 2 bacti MCLs (1 with E. coli that counts as an additional violation)).
>
> Please let us know if you need anything further. Thank you.
>
> Mary Beth
>
> Mary Beth Thelen
> Management Assistant to Director Dan Wyant
> Department of Environmental Quality
> Constitution Hall, 6th Floor South
> Phone: 517-284-6712 or 284-6700 (new numbers)
> Fax: 517-241-7401
> Thelenm2@michigan.gov

From: Hollins, Harvey (GOV)
Sent: Tuesday, March 17, 2015 4:47 PM
To: Thelen, Mary Beth (DEQ)
Cc: Wyant, Dan (DEQ); Wurfel, Brad (DEQ); Clayton, Stacie (GOV); Sygo, Jim (DEQ)
Subject: Re: City of Flint Information - Consultants

Thank you. Has anyone from DEQ talked with them? Do they know I will be calling?

Best,
Harvey

On Mar 17, 2015, at 9:54 AM, Thelen, Mary Beth (DEQ) <THELENM2@michigan.gov> wrote:

> Good Morning Harvey,
>
> The consultants listed below are working with Flint and are in the best position to recommend a water filter system. The locals should be asked to use their consultants to recommend a technology.
>
> Warren Green with Lockwood, Andrews & Newman, Inc.
> 630-918-2494
>
> and
>
> Marvin Gnagy with Veolia North America
> 419-450-2931
>
> Thank you.
>
> Dan Wyant
> Director
>
> ---
>
> Mary Beth
>
> Mary Beth Thelen
> Management Assistant to Director Dan Wyant
> Department of Environmental Quality
> Constitution Hall, 6th Floor South
> Phone: 517-284-6712 or 284-6700 (new numbers)
> Fax: 517-241-7401

Thelenm2@michigan.gov

From: Hollins, Harvey (GOV)
Sent: Wednesday, April 29, 2015 12:11 PM
To: 'Clayton, Stacie (GOV)'
Subject: 20150429_Flint Emergency Management and Water Briefing.docx
Attachments: 20150429_Flint Emergency Management and Water Briefing.docx

Flint Emergency Management Briefing

Before 2011

Flint has been devastated by decades of plant closings and mass layoffs in the auto industry. In 1970, GM employed 82,000 workers in the city. Now, there are less than 8,000. Over the same four decades, the population has gone from 193,000 to just over 100,000.

In 2002, the city of Flint attempted to avoid emergency management, by cutting $12 million, including closing a northside police precinct and halting ambulance service. However, the review team determined that a fiscal emergency existed in Flint, former Gov. John Engler later declared a financial emergency and the city was placed under state receivership. Governor Engler appointed Ed Kurtz, former president of a private business college, as emergency financial manager to oversee Flint's finances. A city audit five months into Kurtz's tenure revealed a $26.6 million deficit.

Before Kurtz was appointed, the city had eliminated it's ambulance and housing services. The cuts Kurtz initiated included: closing the city's recreation centers, cutting mayor and council pay, raising water bills 11%, and eliminating 54 jobs.

In 2004, Governor Granholm removed the emergency manager, but continued oversight through January 2006.

EM Administrations and governing public acts:

○ Ed Kurtz	2002-2004	PA 72
○ Michael Brown	2011-2012	PA 4 (PA 4 was suspended in 2012)
○ Ed Kurtz	2012-2013	PA 72 – PA 436
○ Michael Brown	2013	PA 436
○ Darnell Early	2013-2014	PA 436
○ Gerald Ambrose	2015	PA 436

Emergency Management after 2011

Achieved Benchmarks:

- Complete elimination of operating deficits through cost reductions and the implementation of financial best practices
- General Fund accumulated deficit reduction from 19.1 million in 2012 to approximately $7 million currently
- Flint City Lockup reopens for the first time since 2008. It can house up to 110 inmates for up to 72 hours and costs $2.1 million annually to operate.
- Workforce and employee compensation both have been reduced by 20%
- $850 million in unfunded OPEB liabilities has been reduced to $240 million
- A qualified city administrator has been hired.
- Consolidation of the city-funded 68th district court into the county funded 67th district court creating $800k in annual savings.
- Consolidation of 911 dispatch services into the county system. More than $1 million in annual savings.
- The City has adopted its first Master Plan since the 1960s.
- The City adopted a new Capital Improvement Plan.

- The City implemented a new methodology for blight.
- The City will request a $7 million emergency loan to fully eliminate its remaining General Fund Accumulated deficit.

Remaining Challenges:

- OPEB reductions are subject to a federal lawsuit. Loss of this legal action means an additional $5million annual OPEB expense.
- Future expense reductions are necessary to balance multi-year projections.
- The transition to KWA and maintenance of the aging water distribution infrastructure are important challenges which require significant funding and continued leadership.
- The City must reappraise all of the real property in the City prior to the 2018 Assessment Roll. This will be a costly, but necessary undertaking.

Flint Water Briefing

In November 2012 the Department of Treasury commissioned the firm of Tucker, Young, Jackson & Tull, Inc. (TYJT) to analyze options for the City of Flint to either remain a customer of the Detroit Water & Sewer Department (DWSD) or to join the Karegnondi Water Authority (KWA) in Genesee County. The purpose of this study was to provide objective analyses to the State Treasurer and Flint's Emergency Financial Manager (EFM) in order to secure future potable drinking water for the City.

In December 2012, staff from TYJT met with representatives from the Department of Treasury and the City of Flint to provide a preliminary report on their findings. At this meeting, options presented were: 1) Flint Water Plant will provide 100% water, 2) 100% provision of untreated Lake Huron Water by KWA, 3) 100% provision of treated drinking water by DWSD, or 4) provision of variable amounts of water from DWSD using a combination of blended DWSD water and Flint River water.

The Flint EFM eliminated all options except the 100% DWSD option or joining KWA, deciding later to join KWA.

On April 25, Flint officially ended nearly 50-years of using DWSD to supply water.

The city currently uses the Flint River until the Karegnondi Water Authority pipeline is built, which will bring untreated Lake Huron water to Genesee County. KWA should be operational by winter 2016.

The Flint river water is harder than DWSD. A number of residents are experiencing discoloration and order with the water. In addition there have been a number of citations largely around heighten levels of Total Trihalomethanes (TTHM).

Given water quality concerns, suggestions have been made that the City of Flint should return to using water purchased through the Detroit Water and Sewerage Department (DWSD). For many reasons, financial and otherwise, the City of Flint can ill-afford to switch courses at this point. The estimated cost to go back to the water provided by the DWSD is approximately $1 million per month and the City expects to be using the Karegnondi Water Authority (KWA) Lake Huron water within or before the 1st quarter of 2016.

The City of Flint is proceeding with a series of actions to ensure the continued safety of Flint drinking water is maintained and that issues of discoloration and odor continue to be addressed. Most notably, the installation of a Granulated Active Charcoal filter (GAC) at the Water Treatment Plant is expected to be authorized this week by Emergency Manager Jerry Ambrose.

The introduction of the GAC to the treatment process at Flint's plant will absorb or reduce the chemical precursors which will block or eliminate the formation of TTHM during the filtration process. Engineering and design are underway and installation of the GAC is targeted for completion by mid-July. Cost of this improvement is projected at $1.5 million and will be paid for by the proceeds from the state approved restructuring of the City's Drinking Water Revolving Fund loans.

In addition to the installation of the GAC, the City of Flint is undertaking a number of other improvements to the water system in the coming months, including a water leak detection monitoring, completion of the hydraulic model and subsequent targeted hydrant flushing program, and the replacement of two miles of water main pipe in a critical area of the city. All of these improvements scheduled to occur within the next six months.

Subject:	Flint Water Meeting
Location:	Sterling Corporation in the Hollister Building, 106 W. Allegan, Suite 2, Lansing, MI
Start:	Mon 3/9/2015 12:00 PM
End:	Mon 3/9/2015 1:00 PM
Show Time As:	Out of Office
Recurrence:	(none)
Meeting Status:	Meeting organizer
Organizer:	Hollins, Harvey (GOV)
Required Attendees:	'Maxine Murray'; Thelen, Mary Beth (DEQ); 'Gerald Ambrose'; Clayton, Stacie (GOV); Wurfel, Brad (DEQ); Shekter Smith, Liane (DEQ)
Optional Attendees:	Devereaux, Tracy Jo (DEQ); Busch, Stephen (DEQ); 'Natasha Henderson'

Attendees

Harvey Hollins, Director, Governor's Office of Urban and Metropolitan Initiatives
Gerald Ambrose, Flint Emergency Manager
Natasha Henderson, Flint, City Manager
Liane Shekter Smith, Chief, Office of Drinking Water and Municipal Assistance (DEQ)
Stephen Busch, Office of Drinking Water and Municipal Assistance (DEQ)

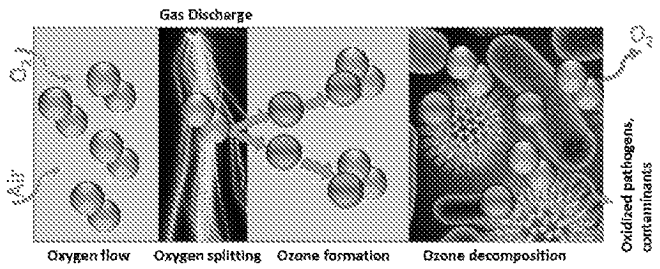
SonnioGlobal_Ozone disinfectio...

Brad Wurfel, Director of Communications (DEQ)

Chemical Free Water Disinfection by Ozone

Today about 98% of water treatment facilities in the U.S. use some form of chlorine to disinfect drinking water supplies. It is a cost effective method for destroying potentially harmful bacteria and viruses. However, chlorine's ability to interact with organic compounds in water leads to trihalomethanes (THMs) formation. Especially, river or lake water with high level of organic matter require heavy chlorination to combat high level of bacteria, resulting in dangerous levels of THMs and bad smell. THMs, when ingested can encourage the growth of free radicals that can destroy or damage vital cells in the body. Besides cancer, exposure to THMs has been linked to other health issues including asthma, eczema, heart disease and higher miscarriage and birth defect rates. Further, high level of chlorine also poses serious risk to the aging infrastructure.

Chemical free water disinfection technologies such as UV light and ozone have long been recognized to be much safer than chlorination, however, their high cost has prevented wider adoption. The basic mechanism of ozone generation and disinfection is shown in the picture. Ozone has a high oxidation potential (much higher than chlorine) and a superior response time compared to other sanitizing products. Its high oxidizing potential enables ozone to break down organic matters that chlorine cannot. Some pollutants can only be oxidized by ozone. For example, ***Cryptosporidium Parvum***, a drinking water pollutant, is resistant to most disinfectants, but is effectively destroyed by ozone. Most importantly, the emission from ozone is pure oxygen and it leaves no residues.



UV light is a competing non-chemical sterilization technique. Intense UV rays break down the sensitive RNA and/or DNA of microorganisms, thus preventing the organism from reproducing. Ozone, on the other hand, oxidizes the microorganisms, thus destroying their cells completely. UV sterilization being a line of sight process, to be effective, one needs to remove most of the suspended matter prior to the treatment. In contrast, ozone oxidizes the soil or particulate matter, changing or destroying the chemistry of the soiling materials such as organic compounds.

Despite the great benefits of ozone, its widespread adoption is limited due to the high total ownership cost of current commercial ozone generators. Somnio's $AiR_2O_3^{TM}$ ozone generator is a paradigm shift in ozone generation technology. The first and only commercial barrier less ozone generator eliminates the requirement of dielectric barriers and highly filtered dried oxygen (pure or enriched) supplies, which restrain current commercial ozone generators. This groundbreaking technology brings a market-competitive, robust, energy efficient, and scalable modular device that offers a financially attractive alternative with the capability of producing varying levels of ozone depending on the application at hand.

Producing ozone cost effectively is only part of the greater story of the far reaching benefits of ozone. Applying ozone effectively for a given application requires careful and intelligent design, sensing and monitoring. In addition to its revolutionary $AiR_2O_3^{TM}$ ozone generator, Somnio

collaborates with end users to provide complete and economical turnkey solutions. Somnio's current in-house test plant incorporates all necessary safety features and automation.

Subject: Flint Water Advisory Committee Meeting
Location: 1026 E Kearsley St, Flint, MI 48503, Flint Public Library

Start: Thu 3/19/2015 1:00 PM
End: Thu 3/19/2015 3:00 PM
Show Time As: Free

Recurrence: (none)

Organizer: Hollins, Harvey (GOV)

Jason Lorenz
Public Information Officer
(810) 237-2039
jlorenz@cityofflint.com
For Immediate Release
Water Advisory Committee to Hold Second Meeting at Flint Public Library on Thursday, March 19, 2015
Flint, Michigan – March 17, 2015 – The Water Advisory Committee formed to help aid in communication between the City and the community is holding its second meeting on Thursday, March 19, 2015 from 2:00-4:00pm at the Flint Public Library. The committee will be updated on the current status of improvements to the water system, the next steps to be taken including cost and timing estimates and formatted responses to questions asked at the previous meeting. In addition, the committee will be provided with a comprehensive budget overview with clear cost breakdowns.
The purpose of the Water Advisory Committee is to provide the community with ongoing information on the City's work to maintain a safe water supply and to improve quality. In addition to gathering information from the City to share during their interactions with the community, committee members will also be expected to share the concerns they receive from the community in order for those concerns to be addressed.
All meetings by the Water Advisory Committee will be open to the public and will be held at easily accessible locations throughout the city. Meetings will be held on a regular basis as work continues at least until the City is receiving its water from the Karegnondi Water Authority, which is anticipated to be in 2016.
Any group who has not received an invitation and who would like to have a member participate can send a request to mayor@cityofflint.com.
–END–

All,

I am sending everyone a copy of the press release that is being sent to the media this afternoon regarding the upcoming Flint Water Advisory Committee Meeting. Please take note that the venue for the meeting this Thursday March 19th is the Flint Public Library.

The meeting time is once again from 2:00 pm until 4:00 pm and we look forward to good participation.

Thank you,

--
Howard Croft
Public Works Director
City of Flint

1101 S. Saginaw Street
Flint, MI 48502
PH# 810.766.7135 Ext.2043
hcroft@cityofflint.com<mailto:hcroft@cityofflint.com>

Subject:	HH/DM & others Re: KWA (Flint Water)
Location:	Governor's Conference Room
Start:	Wed 8/26/2015 1:30 PM
End:	Wed 8/26/2015 2:00 PM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	Clayton, Stacie (GOV)
Required Attendees:	Hollins, Harvey (GOV); Muchmore, Dennis (GOV); Workman, Wayne (TREASURY) (WorkmanW@michigan.gov); Saxton, Thomas (Treasury); Dempkowski, Angela (Treasury); Wendy Wisniewski (WisniewskiW@michigan.gov)

Call In:
Access: **PPI**
Harvey will host

Attendees

Dennis Muchmore
Harvey Hollins
Tom Saxton
Wayne Workman -- via phone
Jeff Wright, Genesee Drain Commissioner and Chair of KWA
John O'Brien, Genesee Drain Deputy Commissioner
Dave Jansen, assistant to J. Wright

Agenda Items:

1) Financing of new water system
2) Governing of the new water system
3) Timeline for the build out of KWA

Subject:	HH/EB Call re: Flint Water
Location:	Eric will call PPI
Start:	Mon 9/14/2015 10:15 AM
End:	Mon 9/14/2015 10:30 AM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	Clayton, Stacie (GOV)
Required Attendees:	Hollins, Harvey (GOV); Brown, Eric (GOV)

Subject:	HH/SW/DM Re: Flint Water Letter
Location:	Comms Conference Room
Start:	Wed 9/23/2015 1:00 PM
End:	Wed 9/23/2015 1:30 PM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	Clayton, Stacie (GOV)
Required Attendees:	Hollins, Harvey (GOV); Wurfel, Sara (GOV); Murray, David (GOV); Kennedy, Jordan (GOV) (KennedyJ4@michigan.gov)

Subject:	Call with Congressman Kildee re Flint Water RS/NL/DM/BM/SW/DW/HH
Location:	DM's Office
Start:	Mon 9/28/2015 10:30 AM
End:	Mon 9/28/2015 11:00 AM
Recurrence:	(none)
Meeting Status:	Meeting organizer
Organizer:	Hollins, Harvey (GOV)

Subject:	Sen. Ananich re Flint Water RS/NL/DM/BM/SW/DW/HH
Location:	DM's Office
Start:	Mon 9/28/2015 11:00 AM
End:	Mon 9/28/2015 11:30 AM
Recurrence:	(none)
Meeting Status:	Meeting organizer
Organizer:	Hollins, Harvey (GOV)

Subject: Conf Call Re: Flint Water

Start: Tue 9/29/2015 2:30 PM
End: Tue 9/29/2015 3:00 PM

Recurrence: (none)

Meeting Status: Accepted

Organizer: Clayton, Stacie (GOV)
Required Attendees: amy.hovey@mail.house.gov; repphelps@house.mi.gov; swalser@senate.michigan.gov; cmushatt@house.mi.gov; Hollins, Harvey (GOV)

Call In:
Access: **PPI**
Stacie will host

Participants

Harvey Hollins, Governor's Office
Rep. Sheldon Neeley
Rep. Phil Phelps
Amy Hovey, Congressman Kildee's Office
Andy Levit, Sen. Ananich's Office

Subject:	Flint Press Conference
Location:	Kettering University Innovation Center, 1300 Bluff St., Flint, MI 48504
Start:	Fri 10/2/2015 12:00 PM
End:	Fri 10/2/2015 1:00 PM
Show Time As:	Out of Office
Recurrence:	(none)
Organizer:	Hollins, Harvey (GOV)

Oct. 1, 2015

Michigan leaders to announce action plan for Flint drinking water

Friday, Oct. 2 at 1:30 p.m.
Local, state and federal leaders will host a press conference to announce a comprehensive action plan for addressing drinking water concerns in Flint. Participants will include:
• Harvey Hollins, Director of the Office of Urban Initiatives for Gov. Rick Snyder
• Dan Wyant, Director for the Michigan Department of Environmental Quality
• Nick Lyon, Director for the Michigan Department of Health and Human Services
• Dr. Eden Wells, Chief Medical Executive for the Michigan Department of Health and Human Services
• Dayne Walling, Mayor of Flint
• Other local, state and federal officials

Location:
Kettering University, Innovation Center
1300 Bluff St.
Flint, MI 48504

Subject:	RDS - REMARKS (AHeaton) Press Conference Re: Flint Water
Location:	Mott Foundation Conference Center, 503 S. Saginaw, Flint
Start:	Thu 10/8/2015 10:00 AM
End:	Thu 10/8/2015 10:42 AM
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	GovCalendar
Required Attendees:	Agen, Jarrod (GOV); Biehl, Laura (GOV); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Hollins, Harvey (GOV); Clayton, Stacie (GOV); Lyon, Nick (DHHS); Grijalva, Nancy (DHHS)
Optional Attendees:	Heaton, Anna (GOV); Wurfel, Sara (GOV)

Purpose: Press conference regarding Flint water

Program Participants:
Flint Mayor Dayne Walling
DEQ Director Dan Wyant
DHHS Director Nick Lyon
Dr. Eden Wells, DHHS
Ridgeway White, Mott Foundation
Harvey Hollins
Sen. Jim Ananich

Non-Speaking Invitees: (all attendance unconfirmed)
Rep. Tim Greimel
Rep. Phil Phelps
Rep. Sheldon Neely
Flint City Councilmembers
Faith Based Community members
U of M Flint Chancellor Susan Borrego (RDS talked to 10/7/15 at the Higher Ed Summit)
Amy Hovey, Staff of Congressman Dan Kildee
Jamie Gaskin, CEO of Genesee County United Way
Tim Herman, CEO of Flint and Genesee Chamber of Commerce
Brian Larkin, Flint and Genesee Chamber of Commerce (fmr. EO staff)
Kathryn Thomas, VP of Communications for Mott Foundation
Neal Hegarty, VP of Programs for Mott Foundation
Kimberly Roberson, Director of Flint Area Grantmaking Program for Mott Foundation

Agenda:
10:00 AM – 10:01 AM Harvey Hollins kicks off press conference; introduces Governor
10:01 AM – 10:05 AM Governor gives remarks
10:05 AM – 10:06 AM Harvey Hollins introduces Mayor Dayne Walling
10:06 AM – 10:10 AM Mayor Walling gives remarks
10:10 AM – 10:11 AM Harvey Hollins introduces DEQ Director Dan Wyant

10:11 AM – 10:15 AM	Director Wyant gives remarks
10:15 AM – 10:16 AM	Harvey Hollins introduces DHHS Director Nick Lyon
10:16 AM – 10:17 AM	Director Nick Lyon brief comments, introduces Dr. Eden Wells
10:17 AM – 10:20 AM	Dr. Eden Wells remarks
10:20 AM – 10:21 AM	Harvey Hollins introduces Senator Jim Ananich
10:21 AM – 10:26 AM	Senator Jim Ananich remarks
10:26 AM – 10:27 AM	Harvey Hollins introduces Ridgway White of Mott Foundation
10:27 AM – 10:32 AM	Ridgway White gives remarks
10:32 AM – 10:42 AM	Q&A from the podium (SW to moderate)
10:42 AM	Event concludes; Governor departs

OPEN Press

High level points:

- Protecting the health and safety of our residents in Flint and across Michigan is always our top priority.
    - All Michigan residents need access to safe, clean water
- That's why today, in consultation with health and water experts in our state agencies, I'm advocating reconnecting the Flint drinking water with the Great Lakes Water Authority.
- I'm recommending to my partners in the Legislature that the state government provide $6 million of the needed $12 million to reconnect with authority.
    - The Flint city government has agreed to cover $2 million of this cost, and the Charles Stewart Mott Foundation is generously offered to donate $4 million.
- What you are seeing here today is a community coming together to work toward solving a problem.
    - I appreciate the assistance of Mayor Walling, and the U.S. Environmental Protection Agency.
    - This is a collaborative approach, and I appreciate that community organizations including the United Way and come forward to assist.

Attachments:

1. Briefing
2. FAQs for Media Q&As
3. Press Release

Briefing.pdf

FAQs for Media QAs.pdf

Press Release.pdf

Staff/Detail
Venue POC: Kathryn Thomas (mobile?) PPI
Security POC: Phil Snyder (mobile) PPI
Advance: CLU
Comms: All

Briefing: Flint Water System Press Conference
Thursday, Oct. 8, 2015
Mott Foundation/Commerce Center Building Ground Floor
519 S. Saginaw St., Flint
Communications: Sara Wurfel, 517-599-3470, wurfels@michigan.gov
Dave Murray, 517-449-8343, murrayd1@michigan.gov

Purpose:

We're announcing the decision to reconnect Flint to the Detroit Water and Sewerage Department, a collaborative effort between the state government, Flint city government and the Mott Foundation.

High level points:

- Protecting the health and safety of our residents in Flint and across Michigan is always our top priority.
    - All Michigan residents need access to safe, clean water.

- That's why today, in consultation with health and water experts in our state agencies, I'm advocating reconnecting the Flint drinking water with the Great Lakes Water Authority.

- I'm recommending to my partners in the Legislature that the state government provide $6 million of the needed $12 million to reconnect with authority.
    - The Flint city government has agreed to cover $2 million of this cost, and the Charles Stewart Mott Foundation is generously offered to donate $4 million.

- What you are seeing here today is a community coming together to work toward solving a problem.
    - I appreciate the assistance of Mayor Walling, and the U.S. Environmental Protection Agency.
    - This is a collaborative approach, and I appreciate that community organizations including the United Way and come forward to assist.

Agenda:

9:00 AM - 9:45 AM	Gov meets with Mayor Walling in [Room 1]
9:45 AM – 10:00 AM	Pre-Brief in [Room 2]
10:00 AM – 10:01 AM	Harvey Hollins kicks off press conference; introduces Governor
10:01 AM – 10:05 AM	Governor gives remarks
10:05 AM – 10:06 AM	Harvey Hollins introduces Mayor Dayne Walling
10:06 AM – 10:10 AM	Mayor Walling gives remarks
10:10 AM – 10:11 AM	Harvey Hollins introduces DEQ Director Dan Wyant
10:11 AM – 10:15 AM	Director Wyant gives remarks
10:15 AM – 10:16 AM	Harvey Hollins introduces DHHS Director Nick Lyon
10:16 AM – 10:17 AM	Director Nick Lyon introduces Dr. Eden Wells
10:17 AM – 10:20 AM	Dr. Eden Wells remarks
10:20 AM – 10:21 AM	Harvey Hollins introduces Ridgway White of Mott Foundation
10:21 AM – 10:25 AM	Ridgway White gives remarks
10:25 AM – 10:35 AM	Q&A from the podium
10:35 AM	Event concludes; Governor departs

Attendees: Roughly 20 in audience

Susan	Borrego	Chancellor, U of M Flint
Oscar	Overton	Pastor
Alfred	Harris	Pastor

Latrelle	Holmes	Pastor
Jim	Ananich	Michigan Senate
Sheldon	Neely	Michigan House
Phil	Phelps	Michigan House
Jeff	Wright	Drain Commissioner, Genesee County
Amy	Hovey	Dan Kildee office
Jamie	Gaskin	Dan Kildee office
Tim	Herman	Flint Chamber of Commerce
Brian	Larkin	Flint Chamber of Commerce
Eric	Mays	Flint City Council
Jacqueline	Poplar	Flint City Council
Kerry	Nelson	Flint City Council
Joshua	Freeman	Flint City Council
Wantwaz	Davis	Flint City Council
Herbert	Winfrey	Flint City Council
Monica	Galloway	Flint City Council
Vicki	VanBuren	Flint City Council
Scott	Kincaid	Flint City Council

Speaker comments:

RDS – Collaboration led to solution, outline of solution
Mayor Walling – Importance of solution to Flint
Dan Wyant – School testing results, overview of steps on transition from Flint River to DWSD
Nick Lyon – DHHS involvement
Dr. Eden Wells – Testing of water going forward, use of filters approved by NSF
Ridgway White – Importance of collaboration/commitment to Flint

Talking points:

- Protecting the health and safety of our residents in Flint and across Michigan is always our top priority.
    - All Michigan residents need access to safe, clean water

- That's why today, in consultation with health and water experts in our state agencies, I'm advocating reconnecting the Flint drinking water with the Great Lakes Water Authority.

- I'm recommending to my partners in the Legislature that the state government provide $6 million of the needed $12 million to reconnect with authority.
    - The Flint city government has agreed to cover $2 million of this cost, and the Charles Stewart Mott Foundation is generously offered to donate $4 million.
    - The Michigan Department of Health and Human Services and the Department of Environmental Quality today also is committing an additional $3.5 million for water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

- What you are seeing here today is a community coming together to work toward solving a problem.
    - I appreciate the assistance of Mayor Walling, and the U.S. Environmental Protection Agency.
    - This is a collaborative approach, and I appreciate that community organizations including the United Way and come forward to assist.

- Today's announcement in an important step as we move forward together.
    - But it is not our first step, nor will it be our last.

        - This announcement builds on work we've already set in place.
            - That includes $4.2 million in state grants and loan restructuring to help identify and fix infrastructure problems.
            - State agencies have been working closely with Flint leaders and the community for more than a year.

- There will be more to do.
    - Flint has an aging water infrastructure system with challenges that we – together – will continue to address.

- We will continue to test Flint schools for lead levels in drinking water.
    - Schools across the state might also have questions.
    - The Department of Environmental Quality will work with districts across the state to provide testing.
        - Districts can send water samples and paperwork and the nominal charge. (It costs $26 per sample).

- The steps outlined in the comprehensive action plan are still in effect.

FAQs for Media Q&As

Switch to Great Lakes Water Authority

What finally pushed the state to this decision?

This was the City's request, and the Governor supports it, based on several key factors:
In the near term, DWSD water will be easier to manage. It comes from a more stable source than the river, it is fully optimized for corrosion control, and it is clear that residents of Flint have more confidence in this water source.

Will this solve Flint's water crisis?

In combination with the other short term, intermediate term and long-term steps outlined last week, this move represents a big step forward. Flint still has serious system maintenance challenges it must address.

If you're saying residents will still have lead because of their plumbing, does that mean every other city in this state has a lead problem?

Many areas of the state have lead in their infrastructure mix.

Where's the state getting the money to fund this?

We have submitted a formal request to lawmakers via the appropriations process.

Where's the city getting the money to fund this?

The city is contributing all it can, and is getting assistance for its match from the Mott Foundation.

How long will the switch take?

The switch will be completed by the City and Great lakes Water Authority, but our understanding is that it can be accomplished in the very near term once the arrangements are complete.

How long will it take before Detroit's corrosion controls provide protection for Flint?

It will take some time for the corrosion control additives to build on pipe walls throughout the system. Estimates vary. The state can assure we will commence monitoring of the system early 2016 and report results as we get them to keep the community updated.

Why do residents still need to use filters and bottled water?

The filters and bottled water are responsible precautions for any resident concerned about lead exposure.

Do the filters actually work? We've been hearing they don't protect for lead.

Yes, the filters work. They are all certified for lead removal by the National Sanitation Foundation.

The filters are only good for 100 gallons. What happens when they are used up?

They will need to be replaced. And residents can get a new filter.

What about restaurants?

What's going to be done about lead service lines?

Long term, this is the only permanent solution to lead exposure. The state has committed to helping the city accomplish this goal long term.

Do you wish you'd made this switch sooner?
We support the City's decision. We can't look backward. We feel the state has responded quickly and effectively as information has surfaced, been investigated and verified. While the City of Flint is, right now, in compliance with the federal Lead and
Copper Rule, we recognize there is a disparity between surveillance testing and other testing happening in the community that we need to better understand and we are working on developing our knowledge.

Schools testing

What do these results say?
The results say we need to further investigate Flint schools and help the schools find clearer causes for some the results we got.

Any theories about what's going on?
It is possible there are specific points in the plumbing that have lead components which need to be replaced, but we can't say anything definitively until we perform an investigation at each school.

Do the schools have lead service lines? If not, why are they getting such high results?
The schools we tested initially do not have lead service lines. There are a few possible reasons why lead is being detected at specific points in the buildings and not others. When we know things definitively, we will make the information public.

How long do the schools have to stay on bottled water? Just until the switch to Detroit, or longer term?
We are encouraging the schools to continue their current protective measures as a precaution until we can get into the buildings and get more answers.

Why did you only test 13 schools?
That was what the Flint Public Schools requested.

What happens to other schools?
We will test all the schools in Flint if they request it.

What about the schools that can't afford to update their entire plumbing systems?
This is why we are having plumbing assessments completed. There is no way to know yet what each building will require.

How confident are you in your testing? You've got results all over the map.
We are confident that our testing meets the requirements for the federal Lead and Copper Rule, which is surveillance monitoring. The bigger question is whether surveillance monitoring meets the public health protection standards that Lead Exposure Testing methods do. The EPA is working on that question now, and we are engaged in that dialogue.

What do you mean by "health exposure testing"? What are you doing next?

The 90th percentile of your results is still below 15 ppb. Does that make you more or less confident in your testing and in your protocols?

It makes us confident that the testing protocol delivers consistent results. But again, it does raise questions about whether this testing method shows what people think it does or what they really want to know, which is actual lead exposure from lead plumbing in a home.

Any idea how long kids have been exposed to lead? Was it before the move to the Flint River?
That is possible. We don't know.

How does the state bring this new information into the broader picture of kids' lead exposure across the state?

RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
EXECUTIVE OFFICE
LANSING

BRIAN CALLEY
LT. GOVERNOR

CONTACTS:	FOR IMMEDIATE RELEASE
Sara Wurfel or Dave Murray Governor's Office: 517-335-6397 Brad Wurfel, 517-284-6713 Department of Environmental Quality Jennifer Eisner, 517-230-9804 Department of Health and Human Services	Thursday, Oct. 8, 2015

Gov. Rick Snyder: Move back to Detroit water provides best protection for public health in Flint

State, Mott Foundation and city form partnership to fund switch

FLINT, Mich. – Flint families and children will be better protected by reconnecting with the Great Lakes Water Authority as the source of the city's drinking water, Gov. Rick Snyder said.

Snyder said Thursday that he will request the state Legislature to provide half, or $6 million, of the $12 million needed to reconnect with the authority. The Flint city government will provide $2 million and the Charles Stewart Mott Foundation will donate $4 million.

"All Flint residents need clean, safe drinking water," Snyder said. "The technical experts helping the city on its water advisory all agree this move back to the Great Lakes Water Authority provides the best public health protection for children and families. This effort today is the result of people coming together to solve a problem. I appreciate Detroit's willingness to reconnect with Flint, the Mott Foundation's generous donation, and the dedication of all parties to come together to protect Flint families and children."

The Michigan Departments of Environmental Quality and Health and Human Services today also committed an additional $3.5 million for water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

Flint city leaders requested the state's help to fund the reconnection after a Wednesday meeting of Flint's Technical Advisory Committee. Flint's move to the Great Lakes Water Authority is expected to cost about $1.3 million per month until the Karegnondi Water Authority is completed next summer.

INSERT MAYOR QUOTE HERE

The move to Detroit water, which is drawn from Lake Huron, carries many public health benefits. As large bodies of water, the Great Lakes are naturally prone to fewer problems from large rain events and other runoff issues that can be present in shallower rivers. Additionally, the Great Lakes Water Authority has already fully optimized its corrosion control, using phosphates to help coat the insides of pipes and prevent lead from leaching into the water.

However, reconnecting with the authority will not completely resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control. Additionally, some households in the city could experience lead in their drinking water until all lead pipes and plumbing are replaced.

INSERT MOTT FOUNDATION QUOTE HERE

To best protect public health, Snyder said state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure.

Free filters are available for current MDHHS clients at the 125 E. Union St. or 4809 Clio Road MDHHS office locations. For residents who are not currently enrolled in MDHHS assistance programs, free filters are available at the Genesee County Community Action Resource Department offices at 2727 Lippincott and 601 North Saginaw in Flint. Staff will be at all four locations from 9 a.m. to 4 p.m., Monday through Friday, to distribute filters and assist residents who have questions about proper installation. At the Lippincott location only, extended hours will be offered this weekend, including until 7 p.m. on Thursday and Friday and from 10 a.m. to 2 p.m. on Saturday.

Other good practices for residents concerned about lead include turning on the cold water tap and running the water until it's as cold as it will go. Additionally, only use cold water for cooking, drinking and especially mixing baby formula.

School test results released; more investigation planned

The state today also released the first results from its lead screening program in schools and homes. Of 37 total samples taken at 13 buildings, four samples spread over three buildings exceeded the federal action level of 15 parts per billion.

However, this sampling provides only an initial screen, and the state is committing to further testing water and inspecting plumbing at these schools. Until testing is complete, schools are advised to continue using bottled water and filtration as a precaution to protect children.

In addition, free testing is still available for any other Flint school, including daycares and Head Starts. Free testing is also available for any Flint resident.

Additional information, including more detailed lead screening results, is available at www.michigan.gov/flintwater.

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Subject:	Hollins/Wyant/Flint Mayor Weaver
Location:	Governor's Conference Room, Romney Building, 2nd Floor
Start:	Thu 12/3/2015 10:00 AM
End:	Thu 12/3/2015 11:00 AM
Show Time As:	Out of Office
Recurrence:	(none)
Meeting Status:	Accepted
Organizer:	Clayton, Stacie (GOV)
Required Attendees:	Hollins, Harvey (GOV); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Wisniewski, Wendy (GOV); Sygo, Jim (DEQ); Krisztian, George (DEQ)
Optional Attendees:	Muchmore, Dennis (GOV)

Updated attendees list

Attendees

Harvey Hollins, Governor's Office
Dennis Muchmore, Governor's Office
Dan Wyant, DEQ
Jim Sygo, Chief Deputy Director
George Krisztian, DEQ Flint Drinking Water Coordinator
Mayor Karen Weaver
Aonie Gilcreast, Mayor's Transition Team
Allen Overton, Mayor's Transition Team
Wallace Hill, Mayor's Transition Team

Subject:	Flint Water Advisory Task Force
Location:	Conference Call PPI
Start:	Wed 12/16/2015 9:30 AM
End:	Wed 12/16/2015 12:00 PM
Recurrence:	Weekly
Recurrence Pattern:	every Wednesday from 9:30 AM to 12:00 PM
Meeting Status:	Accepted
Organizer:	Clayton, Stacie (GOV)
Required Attendees:	Hollins, Harvey (GOV)

Ken Sikkema
Senior Policy Fellow
Public Sector Consultants
PH: 517-484-4954
ksikkema@pscinc.com

From: Baird, Richard (GOV)
Sent: Wednesday, September 30, 2015 11:29 AM
To: Hollins, Harvey (GOV)
Subject: Fwd: Re: Flint water background information
Attachments: image001.jpg; image001.jpg

Follow Up Flag: Follow up
Flag Status: Flagged

Sent from my Verizon Wireless 4G LTE DROID
---------- Forwarded message ----------
From: "Brown, Frank" <fbrown@generalatlantic.com>
Date: Sep 30, 2015 11:24 AM
Subject: Re: Flint water background information
To: "Baird, Richard (GOV)" <bairdr@michigan.gov>
Cc:

Not Responsive

On Sep 30, 2015, at 3:34 PM, Baird, Richard (GOV) <bairdr@michigan.gov<mailto:bairdr@michigan.gov>> wrote:

Frank:

We have a situation in Flint, Michigan that is beginning to get national attention and could be an opportunity for Home Depot. 18 months ago, Flint switched its water supply from Detroit Water (the distance and pumping costs of going uphill made it quite expensive) to the Flint River as a temporary answer, until they could finish the construction to get their water from Lake Huron (Karagondi Water System). The corrosive attributes of the River water have exacerbated the lead deposit leaching into homeowner pipes and there is concern around lead poisoning, especially for infants.

The corporate community is rallying to address the problem. Meijer donated 1500 water filters to low income residents and GM is about to announce a donation of between 5,000 and 10,000 filters. I do not yet know where GM is getting the filters from, but I was thinking that Home Depot might want to join the effort with a donation, supply chain discounting assistance, or some combination of activity that could help Flint residents. Harvey Hollins is our point person for this effort, since he is the Director of Urban Initiatives for Governor Snyder. I have copied him here.

If you could get this into the hands of the right people and see if there is interest in speaking with Harvey, I would be very appreciative. Thanks and take care.

Regards,

Rich

From: Murray, David (GOV)
Sent: Wednesday, September 30, 2015 9:35 AM

To: Baird, Richard (GOV)
Subject: Flint water background information

Hi Rich,

These are two documents that I think are helpful addressing the questions about lead and Flint water overall, prepared by DEQ and DHHS. These were intended for internal use, so please ask our partners to not share them beyond the people on their teams making the decisions.

Please let me know if you need anything else.

Dave

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov<mailto:MurrayD1@michigan.gov>
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

[Emblem]

<Flint water FAQs (00000004).pdf>
<Sharable Flint Lead TP 092415 (00000002).docx>

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From: Baird, Richard (GOV)
Sent: Wednesday, September 30, 2015 4:54 PM
To: Hollins, Harvey (GOV); Clayton, Stacie (GOV)
Subject: Fwd: RE: Flint water background information

Follow Up Flag: Flag for follow up
Flag Status: Flagged

Would you like to call him?

Sent from my Verizon Wireless 4G LTE DROID
---------- Forwarded message ----------
From: Aaron_S_Bonham@homedepot.com
Date: Sep 30, 2015 4:06 PM
Subject: RE: Flint water background information
To: fbrown@generalatlantic.com,"Baird, Richard (GOV)" <bairdr@michigan.gov>,"Hollins, Harvey (GOV)" <hollinsh@michigan.gov>
Cc: STACEY_TANK@homedepot.com

Richard,

Let me know when a good time would be to connect for us to discuss how The Home Depot can support the needs in Flint.

My cell # is PPI

Aaron Bonham
Home Depot
Merchandise Vice President
Department 26 Plumbing
770-384-3947
aaron_s_bonham@homedepot.com
The contents of this e-mail include proprietary and confidential information, and are not intended to represent or form a legally binding offer or acceptance.

-----Original Message-----
From: Brown, Frank [mailto:fbrown@generalatlantic.com]
Sent: Wednesday, September 30, 2015 3:53 PM
To: Richard Baird; hollinsh@michigan.gov
Cc: Bonham, Aaron S; Tank, Stacey M
Subject: Fwd: Flint water background information

Hi all. Figure I will just connect everyone and let you figure out from here. Hope this can result in some help. All the best.

Frank

Sent from my iPad

Begin forwarded message:

From: <Aaron_S_Bonham@homedepot.com<mailto:Aaron_S_Bonham@homedepot.com>>
Date: September 30, 2015 at 6:00:47 PM GMT+1
To: <fbrown@generalatlantic.com<mailto:fbrown@generalatlantic.com>>
Cc: <STACEY_TANK@homedepot.com<mailto:STACEY_TANK@homedepot.com>>
Subject: Flint water background information

Frank,

Received your email from Craig. We would be glad to help.

Can you provide any additional information on filter sizes needed in the area and quantity you might be looking for?

We are also going to look to donate bottled water if that makes sense?

Aaron Bonham
Home Depot
Merchandise Vice President
Department 26 Plumbing
770-384-3947
aaron_s_bonham@homedepot.com<mailto:aaron_s_bonham@homedepot.com>
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From: Baird, Richard (GOV)
Sent: Tuesday, December 08, 2015 1:21 PM
To: Hollins, Harvey (GOV)
Subject: FW: Flint Water Advisory Task Force Recommendation
Attachments: KRS version of Snyder Letter 2 (1).docx

From: Baird, Richard (GOV)
Sent: Monday, December 07, 2015 3:49 PM
To: Manolakoudis, Virginia (GOV)
Subject: FW: Flint Water Advisory Task Force Recommendation

From: Ken Sikkema [mailto:ksikkema@pscinc.com]
Sent: Monday, December 07, 2015 3:31 PM
To: Snyder, Rick (GOV)
Cc: Chris Kolb; Matt Davis; Lawrence Reynolds; Eric Rothstein; Baird, Richard (GOV)
Subject: Flint Water Advisory Task Force Recommendation

Dear Governor Snyder:

We want to thank you for the recent conference call between members of the Flint Water Advisory Task Force (FWATF), yourself, and members of your administration. Attached is a follow-up letter to that conference call outlining an initial set of recommendations that we believe should be implemented in the very near future to focus the state's efforts to protect the public health in Flint.

We both acknowledge and appreciate your personal interest in this issue and your commitment, not only to assisting the Task Force in our review, but--most importantly--to ensuring that the full measure of state resources are brought forward to protect the public health in Flint and throughout the state.

Respectfully,

Ken Sikkema

Ken Sikkema
Senior Policy Fellow
Public Sector Consultants
PH: 517-484-4954
ksikkema@pscinc.com

December 7, 2015

Dear Governor Snyder:

On Wednesday, November 18, 2015, the Flint Water Advisory Task Force met with representatives of the Michigan Department of Environmental Quality (MDEQ) and the Michigan Department of Health and Human Services (MDHHS) to discuss elements of the 10-point Action Plan designed to address various issues related to the ongoing public health protection challenges precipitated by lead in the Flint water supply. These discussions were held at our request as part of our task to make recommendations to prevent a similar occurrence in Flint or elsewhere, and also to monitor ongoing mitigation efforts.

Subsequent to those meetings, on Tuesday, November 24, 2015, members of the Task Force participated in a conference call with yourself, members of the Administration, and representatives of these agencies to discuss the progress to date on the 10-point Action Plan, as well as several other related issues.

We want to acknowledge the steps that have already been taken to implement the action plan, specifically in the areas of outreach efforts to facilitate blood lead testing for children, communication with health care providers in the Flint community about the importance of testing children for lead, and the training of additional public health nurses in the Genesee County Health Department. We do believe, however, that additional steps need to be taken to reach additional children for blood lead testing, assure proper follow-up with children found to have elevated blood lead levels, and to continue water testing. We will continue to assess state and local efforts and make recommendations regarding specific steps that we believe are warranted.

One primary concern we have at this point is that the current efforts appear to be taking place in the absence of a larger project coordination framework that measures results and clearly delineates responsibilities for continuing actions to protect public health. We believe the state is best positioned to facilitate this larger framework, which should address the following:

1. The need for MDHHS and MDEQ—and, possibly, other state agencies--to set **goals** for actions in collaboration with local and federal agencies and organizations.
2. The need for a set of corresponding **timelines** for the goals.
3. The need to establish **responsibility** for meeting the goals in a timely fashion and for **contingency plans** for the state if the goals are not being met.
4. The need for clear, regular **communication** with the Flint community and stakeholder groups regarding action steps and updates.

We also believe it important that a single person or entity—potentially independent of any one particular state agency and mutually agreeable to this Task Force and you, Governor—be established to provide effective coordination of ongoing activities and reporting on the status of mitigation measures. For this, we also believe a readily understood “dashboard” should be developed that reports on the goals, timelines and assignments. This will enable members of the Flint community, public health providers, and state agencies to know about the status of the Flint water crisis mitigation program, as well as promote coordination and accountability. The Task Force is prepared to assist in the development of that dashboard.

We believe it is vitally important that trusted members of the Flint community be engaged in communication on this issue, as well as the distribution of information conveyed by our suggested dashboard reporting. Accordingly, in advance of our final report, we would like to ensure the independent coordinator suggested above engage trusted community groups to begin rebuilding community trust in state actions.

We appreciate your personal interest in this issue, commitment to assisting the Task Force in our review, and—most importantly—commitment to ensuring that the full measure of state resources are brought forward to protect the public health in Flint and throughout the state.

Respectfully yours,

Flint Water Advisory Task Force:

Dr. Matt Davis

Chris Kolb

Dr. Larry Reynolds

Eric Rothstein

Ken Sikkema

From: Baird, Richard (GOV)
Sent: Friday, December 11, 2015 3:15 PM
To: Murray, David (GOV)
Cc: Hollins, Harvey (GOV); Manolakoudis, Virginia (GOV)
Subject: Fwd: Confirming: Dr. Mona and Flint Water Mtg 12/14 11am

Nick Lyon will join me. Harvey can you be there too?

Sent from my Verizon Wireless 4G LTE DROID
---------- Forwarded message ----------
From: "Manolakoudis, Virginia (GOV)" <ManolakoudisV@michigan.gov>
Date: Dec 11, 2015 1:46 PM
Subject: Confirming: Dr. Mona and Flint Water Mtg 12/14 11am
To: Chris Kolb <chris@environmentalcouncil.org>,Ken Sikkema <ksikkema@pscinc.com>,'Laurence Reynolds' <reynolds@mottchc.org>
Cc: "Baird, Richard (GOV)" <bairdr@michigan.gov>

Good Afternoon,

Just double checking that you are attending Rich's meeting with Dr. Mona and Flint Water on **Monday, December 14th** at **11:00am** in the Governor's Conference Room, 2nd Floor Romney Building.

We will see you on Monday!

Thanks!

Virginia Manolakoudis

Executive Assistant to Richard Baird

Executive Office of Governor Rick Snyder

ManolakoudisV@michigan.gov

(517) 241-5621

From: Mona Hanna-Attisha <MHanna1@hurleymc.com>
Sent: Monday, December 14, 2015 7:02 PM
To: Baird, Richard (GOV); Laurence Reynolds; Matthew M. Davis; Chris Kolb; Ken Sikkema; Chris De Witt; 'Eric Rothstein'; Lyon, Nick (DHHS); Hollins, Harvey (GOV)
Subject: RE: Meeting with Dr. Mona Hanna-Attisha and Flint Water
Attachments: #flintwatercrisis Secondary Prevention Recommendations 121415.pdf

Mr. Baird and all the other guys,

It was a pleasure meeting everyone and a privilege to present to you all. As I said, we have an incredible and unique opportunity to mitigate the impact of this population-wide exposure. If we act now, proactively, we can buffer our kids from the life-altering impacts of lead poisoning.

Flint has many claims to fame (we put the world on wheels, we birthed Mr. Baird!, etc); and now, with your leadership, we can continue to build generations of strong, smart, and healthy children.

If I can be of any further assistance, please don't hesitate to contact me. Email or cell PPI

Thanks again, Mona

Mona Hanna-Attisha MD MPH FAAP
Program Director Pediatric Residency
Hurley Children's Hospital at Hurley Medical Center
Michigan State University College of Human Medicine
Department of Pediatrics and Human Development
Mhanna1@hurleymc.com

From: Baird, Richard (GOV) [bairdr@michigan.gov]
Sent: Thursday, December 10, 2015 2:27 PM
Required: Baird, Richard (GOV); Laurence Reynolds; Matthew M. Davis; Chris Kolb; Ken Sikkema; Chris De Witt; 'Eric Rothstein'; Lyon, Nick (DHHS); Grijalva, Nancy (DHHS); Mona Hanna-Attisha
Subject: Meeting with Dr. Mona Hanna-Attisha and Flint Water
When: Monday, December 14, 2015 11:00 AM-12:00 PM.
Where: Governor's Conference Room, 2nd Floor Romney Building, 111 S. Capitol Ave., Lansing, MI 48933

Good Morning,

This is to confirm the meeting with Rich Baird on **Monday, December 14** at **11:00 a.m.** in the Governor's Conference room, second floor Romney Building, 111 S. Capitol Ave. Lansing, MI 48933.

We are located at the George W. Romney Building, 111 S. Capitol Avenue, Lansing. The Romney Building is located directly across the street (Capitol Avenue) from the Capitol Building. There is some metered parking around the building. The closest parking facility is one block south at the corner of Capitol Avenue and Allegan Street (enter the parking facility from Capitol Avenue). https://www.parkme.com/lot/93032/tower-parking-ramp-lansing-mi

You will also want to have a picture I.D. handy for security in the Romney Building. Please let security know who you have a meeting with, they will call me and then send you up to the second floor.

Please let me know if you have any questions.

Thank you!

Virginia Manolakoudis
Executive Assistant for Richard Baird
Executive Office of Governor Rick Snyder
(517) 241-5621
ManolakoudisV@michigan.gov

#flintwatercrisis

HURLEY CHILDREN'S HOSPITAL

Background & Secondary Prevention

Mona Hanna-Attisha MD MPH FAAP
Hurley Children's Hospital
Michigan State University College of Human Medicine

Agenda

HURLEY CHILDREN'S HOSPITAL

- Flint Water Timeline
- Lead Facts
- Hurley Research Findings
- Introduction to Toxic Stress
- Next steps – Secondary Prevention

Flint Drinking Water Crisis

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- Financial Emergency Managers
- Water switch to Flint River (April 2014)
- Fecal coliform and boil advisories *3 (Sept 2014)
- GM stopped using Flint water – corroding parts (Oct 2014)
- Disinfectant byproducts TTHM (Jan 2015-Sept 2015)

Flint Drinking Water Crisis

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- Perfect storm for lead leaching
  - Flint water more corrosive
  - Lack of corrosion control
  - Aging infrastructure (lead plumbing)
  - Decreased water use - population loss, high water rates

Flint Drinking Water Crisis

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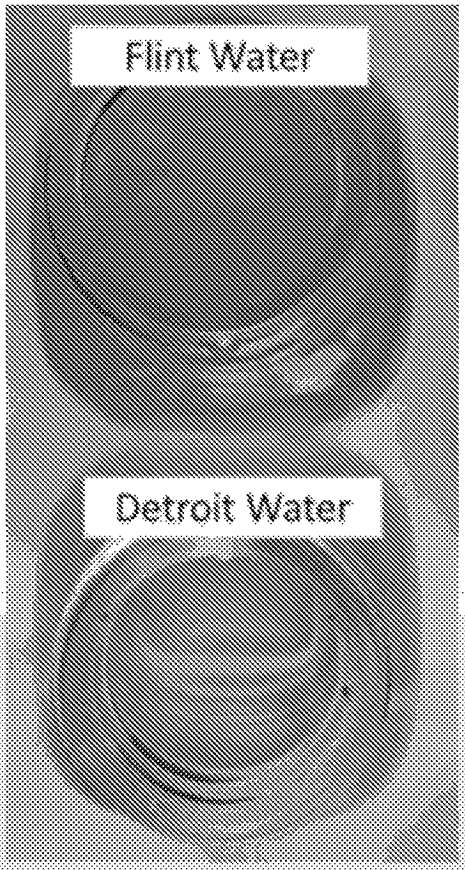
- High lead levels detected, EPA contacted (February 2015)
- Leaked EPA memo (June 2015)
  - LeeAnn Walters WLL 13,200 ppb (toxic waste)
- Dr Marc Edwards, Virginia Tech Research (Aug 2015)
  - Flintwaterstudy.org
  - Corrosion & water lead
- Hurley Research (Sept 2015)



https://www.wsws.org/en/articles/2015/09/26/flin-s26.html

Why do we care about lead?

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- Lead is a potent neurotoxin with lifelong, multigenerational impacts
- Blood lead levels (BLL) 5 ug/dL or more considered elevated blood lead levels (EBLL)
- Just a few years ago (2012), 10 ug/dL was cutoff
- NO safe blood lead level
- Disproportionately impacts low income and minority children
- Primary prevention is most important

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Primary Prevention

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- "Because no measurable level of blood lead is known to be without deleterious effects, and because once engendered, the effects appear to be irreversible in the absence of any other interventions, public health, environmental and housing policies should encourage PREVENTION of all exposure to lead."

"Low Level Lead Exposure Harms Children: A Renewed Call for Primary Prevention." 2012 CDC Advisory Committee on Childhood Lead Poisoning Prevention.

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Impact on cognition

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- Vast evidence supports increased likelihood of:
  - Decrease in IQ
    - An increase in BLL from 1 to 4 ug/dL, drops mean IQ -3.7 points
  - Small change in mean IQ, shifts entire population IQ distribution
    - Reduces high achievers IQs (>130) and increases kids with low IQs (<70)
    - Implications for early intervention, special education services, employment, incarceration, life achievement, etc

Lanphear BP et al., Low-level environmental lead exposure and children's intellectual function: an international pooled analysis. Environ Health Perspect. 2005. 113:894-9.
Fewtrell LJ, Pruss-Ustun A, Landrigan P, and Ayuso-Mateos JL, Estimating the global burden of disease of mild mental retardation and cardiovascular diseases from environmental lead exposure. Environmental Research, 2004. 94:120-33.

Impact on behavior

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- Increased likelihood of :
  - ADHD behaviors
  - Delinquent behaviors and arrests
  - Total arrests and increased rates of arrests involving violent offenses
  - Other health effects: hematologic, cardiovascular, immunologic, endocrine, etc

Wright, JP, KN Dietrich, MD Ris, et al. 2008. Association of prenatal and childhood blood lead concentrations with criminal arrests in early adulthood. *PLoS Med* 5(5): e101
Chen, A, B Cai, KN Dietrich, et al. 2007. Lead exposure, IQ, and behavior in urban 5-7 year-olds: Does lead affect behavior only by lowering IQ? *Pediatrics* 119(3): e650-e658.
Needleman, HL, C McFarland, RB Ness, et al. 2002. Bone lead levels in adjudicated delinquents: A case control study. *Neurotoxicology and Teratology* 24(6):711-717.

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Cost

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- "For childhood lead poisoning, $5.9 billion in medical care costs, as well as an additional **$50.9 billion** (sensitivity analysis: $44.8–$60.6 billion) per year in lost economic productivity resulting from reduced cognitive potential from preventable childhood lead exposure."

- "The present value of Michigan's economic losses attributable to lead exposure in the 2009 cohort of 5 year-olds ranges from $3.19 (using U.S. blood lead levels) to **$4.85 billion** (using Michigan blood lead levels) per year in loss of future lifetime earnings."

Leonardo Trasande and Yinghua Liu. Reducing The Staggering Costs Of Environmental Disease In Children, Estimated At $76.6 Billion In 2008. *Health Affairs*, 30, no.5 (2011):863-870

The Price of Pollution: Cost Estimates of Environment-Related Childhood Diseases in Michigan. 2010 Report by Michigan Network of Children's Environmental Health

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Lead in Water

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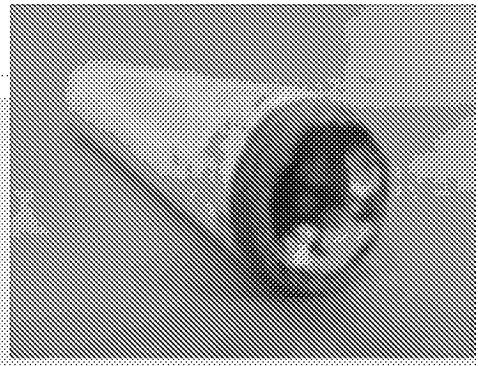
- Not what medicine/public health used to
  - Lead paint obsessed
  - "drinking through a lead painted straw"
- Soluble metal – ingestion via particulate or dissolved in water
- Drinking and cooking risks



Lead in water

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- Disproportionally impacts developmentally-vulnerable formula-fed infants
  - For about 25% of infants drinking formula made from tap water at 10 ppb, blood lead would rise >= 5 ug/dL
- Significant risk to unborn babies
  - Increase in fetal deaths and reduced birth weights

Triantafyllidou, S., Gallagher. D. and Edwards, M. Assessing risk with increasingly stringent public health goals: the case of water lead and blood lead in children. Journal of Water and Health. doi: 10.2166/wh.2013.067 58-68 (2014).
Edwards, M. Fetal Death and Reduced Birth Rates Associated with Exposure to Lead-Contaminated Drinking Water. Env. Sci. and Tech. 2013 DOI: 10.1021/es4034952

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HURLEY CHILDREN'S HOSPITAL

Hurley Children's RESEARCH FINDINGS

Sept 24

Medical Community Press Conference

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Methods

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- HMC IRB approved
- Data from all blood lead levels processed at Hurley Medical Center
- ZIP code based
- Two periods of comparison (same seasons):
  - PRE-SWITCH: January 1, 2013 – September 15, 2013
    - WATER SWITCH APRIL 26, 2014
  - POST-SWITCH: January 1, 2015 – September 15, 2015
- Analyzed % Elevated Blood Lead (EBLL)
  - EBLL = Blood lead Levels >= 5 ug/dL

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Initial Research Results

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- Zip code based (in media)

	ALL FLINT ZIPS (n=1746)	HIGH-WLL FLINT ZIPs (48503-48504) (n=742)	NON-FLINT ZIPS (n=1670)
PRE-SWITCH	2.1%	2.5%	0.6%
POST-SWITCH	4.0%	6.3%	1.0%

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GEOcoded Analysis

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- N= 1473 for Flint water children (pre n=736, post n=737)
- N= 2202 for non-Flint water children (pre n=1210, post n=992)

Flint results for children 5 years and under:

- PRE-SWITCH % EBLL: **2.4%**
- POST-SWITCH % EBLL: **4.9%**
- **p < 0.05; STATISTICALLY SIGNIFICANT CHANGE**

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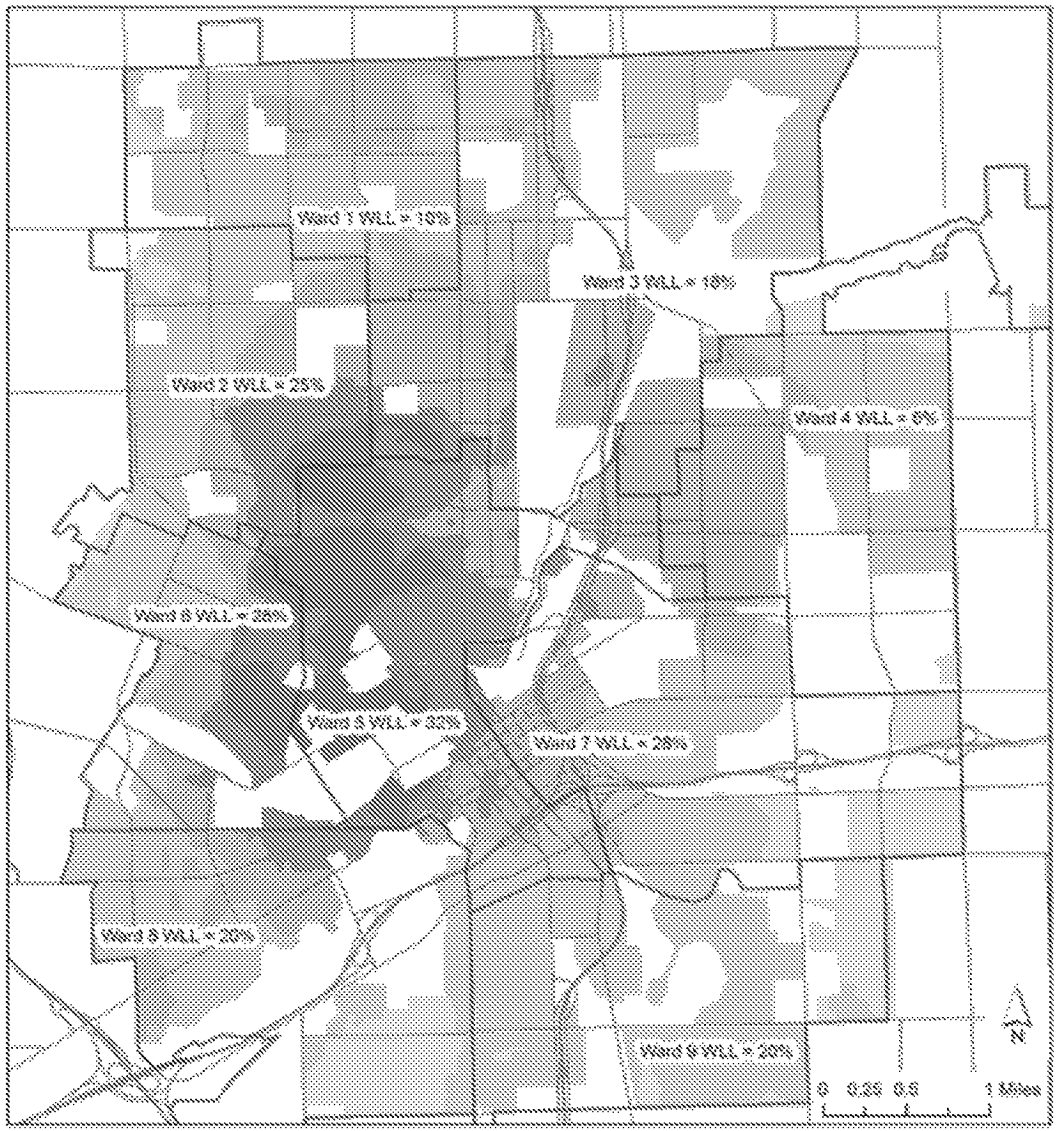
HURLEY CHILDREN'S HOSPITAL



- Focus on high WLL wards (5, 6, 7); ie., those with high water lead levels

Results:

- PRE-SWITCH % EBLL: **4.0%**
- POST-SWITCH % EBLL: **10.6%**
- **$p < 0.05$; STATISTICALLY SIGNIFICANT CHANGE**

- Note: Hot spots between wards/zips

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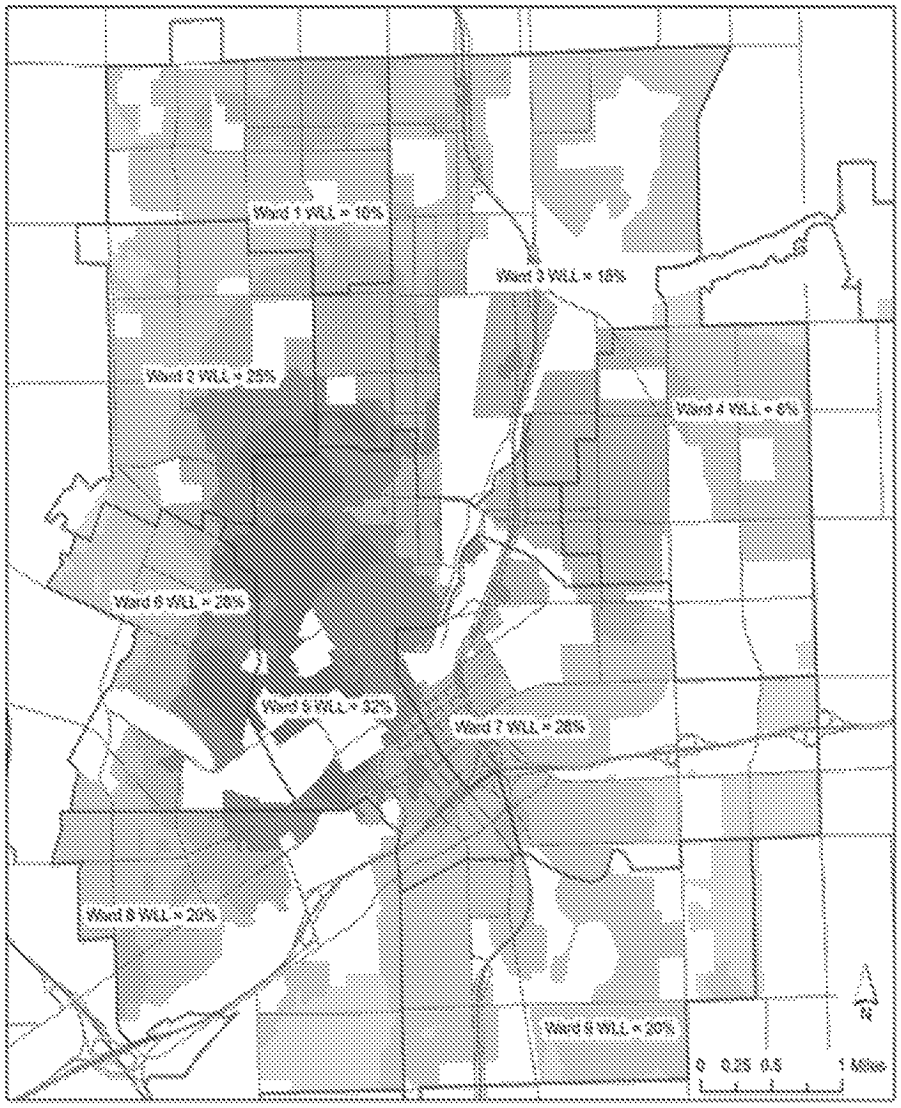
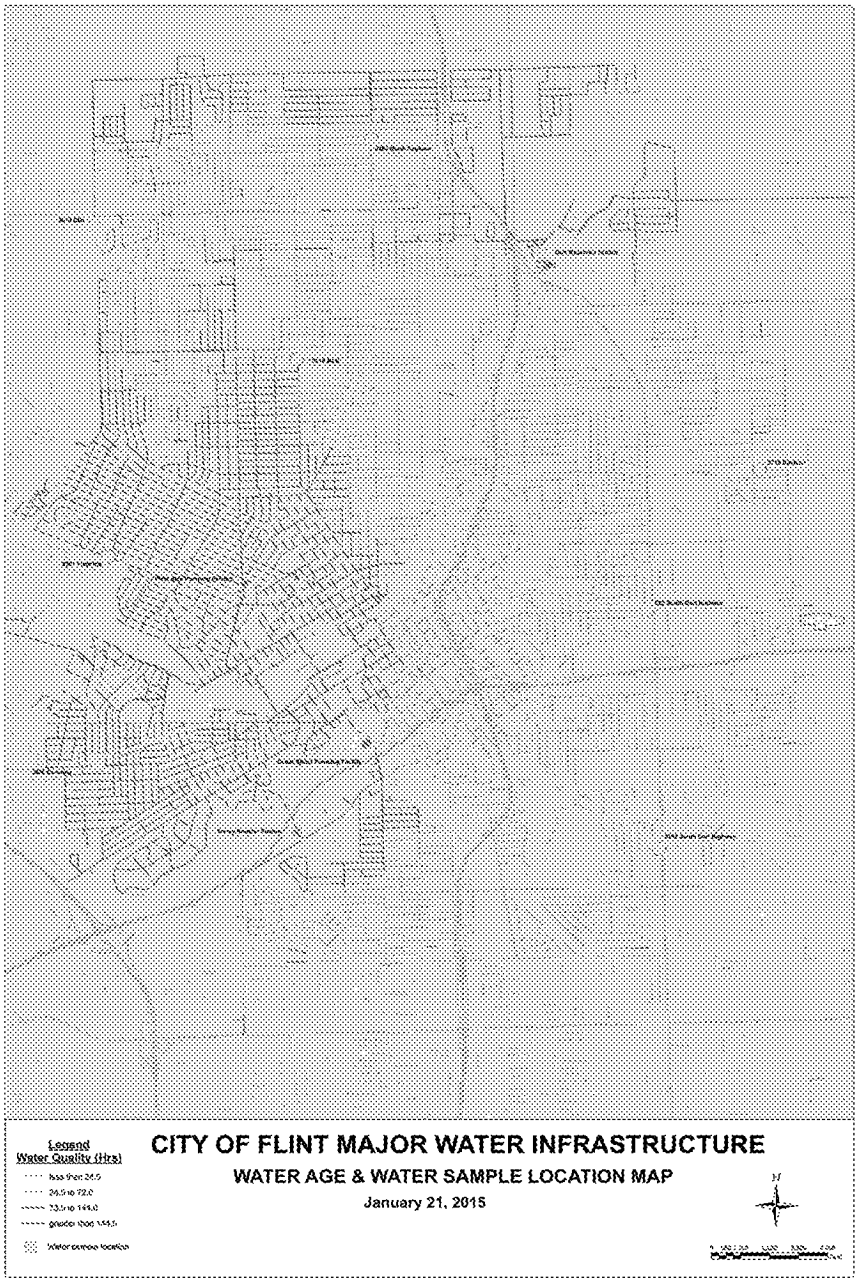

Ward 1 WLL = 16%
Ward 3 WLL = 18%
Ward 2 WLL = 25%
Ward 4 WLL = 6%
Ward 6 WLL = 26%
Ward 5 WLL = 32%
Ward 7 WLL = 28%
Ward 8 WLL = 20%
Ward 9 WLL = 30%
0 0.25 0.5 1 Miles
Flint City Wards
Major Streets
"Ward Y WLL = X.X%"
% of ward where any water sample exceeded 15 ppb
Predicted BLL based on Ordinary Kriging Geostatistical Analysis
0.7 - 0.75
0.76 - 1
1.01 - 1.25
1.26 - 1.5
1.51 - 1.75
1.76 - 2
2.01 - 2.25
2.26 - 2.5
2.51 - 2.75
2.76 - 3.36
*Non-residential zones screened from results


Legend
Water Quality (Hrs)
less than 24.0
24.0 to 72.0
72.0 to 144.0
greater than 144.0
Water service location
CITY OF FLINT MAJOR WATER INFRASTRUCTURE
WATER AGE & WATER SAMPLE LOCATION MAP
January 21, 2015

Pre/Post EBL

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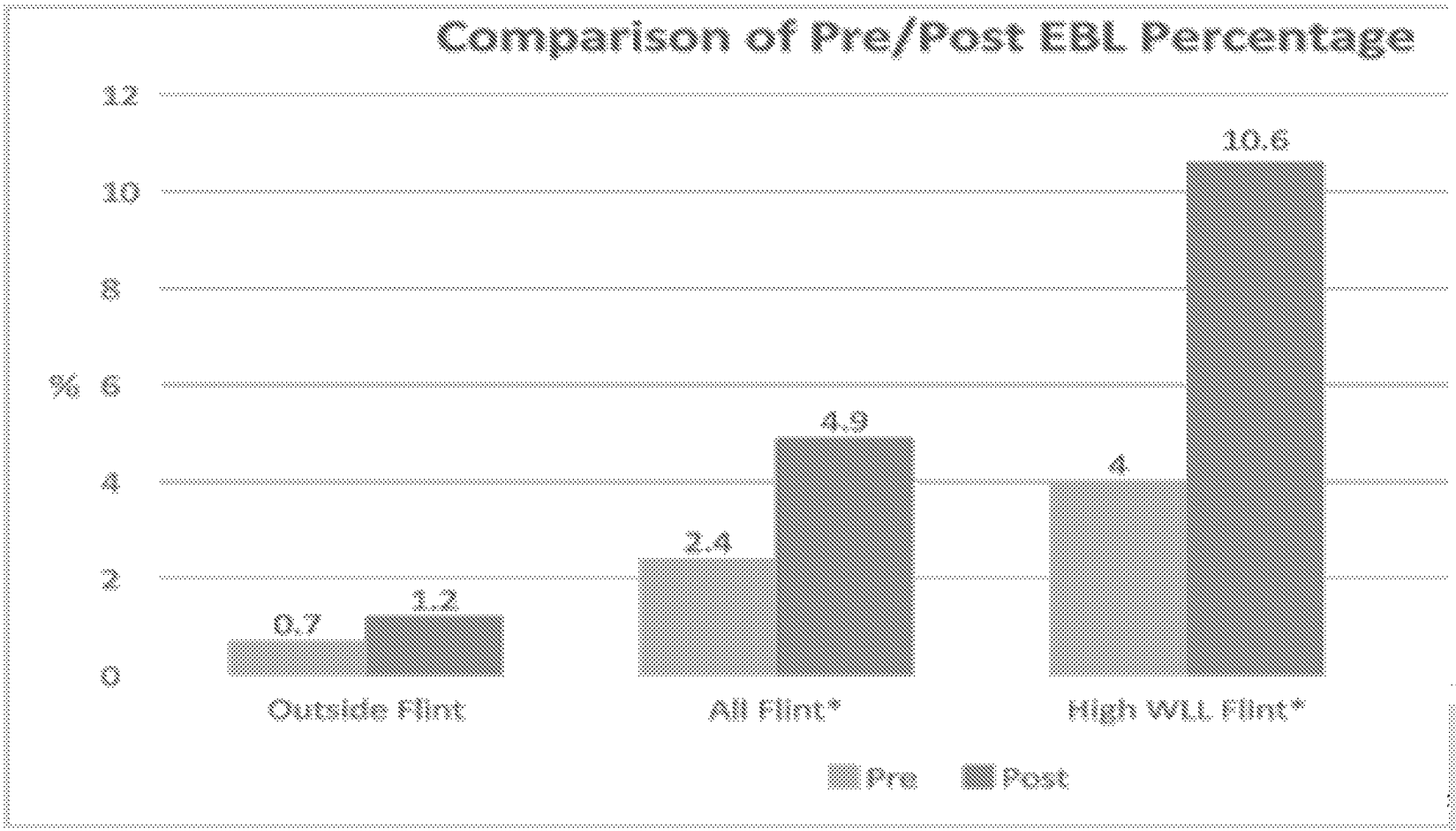

*p<0.05

Research results

- % of children with EBLL in Flint zips increased
  - Most striking increase in areas with highest water lead levels
- **Results significantly underestimate exposure:**
  - Infants not screened for lead
  - BLL may have peaked before being measured (blood half life 20-30 days)
  - Kids exposed in different settings throughout city
- Widened disparities
- Failure of primary prevention

What happened next?

- Sept 25 City of Flint Lead Health Advisory
- Sept 29 GCHD Health Advisory
- Oct 1 GCHD Public Health Emergency
- Oct 2 State filter program, increased water testing, expedited corrosion control
  - Oct 3 First filter distribution
- Oct 8 Three schools toxic WLL, announced reconnection to DWSD
- Oct 16 Water switched back to DWSD

Epigenetics

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Wayne State Researchers Discover Evidence That Lead Exposure in Mothers Can Affect Future Generations

Released: 2-Oct-2015 3:05 PM EDT
Source Newsroom: Wayne State University Division of Research

"A team of researchers at Wayne State University have discovered that mothers with high levels of lead in their blood not only affect the fetal cells of their unborn children, but also their grandchildren. "

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Now

- Preventable population-wide exposure
- Community traumatized
- Loss of trust in government and agencies
  - In 2015, in the middle of the great lakes, no guarantee of safe drinking water
- Ongoing public health emergency

Exposed Population

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- Currently identifying/labeling exposed population
- Cohort includes all children less than 6 years who at any time lived in Flint water limits (geocoded) from April 2014 to end date unknown (extend 9 months for fetal exposure).
- Per census data, approx. 8,000-9,000 children

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Quick Introduction to ACEs/Toxic Stress…

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Adverse Childhood Experiences (ACEs)

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- ACEs are potentially traumatic events that can have negative, lasting effects on health and well-being.
- Also referred to as toxic stress or childhood trauma.
- As number of ACEs increase, the risk for health problems increase in a strong and graded fashion.
- An ACE score of 6 or more results in a 20 year decrease in life expectancy.

- CDC ACE study
  - Kaiser Permanente from 1995 to 1997 with more than 17,000 participants.

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Toxic Stresses

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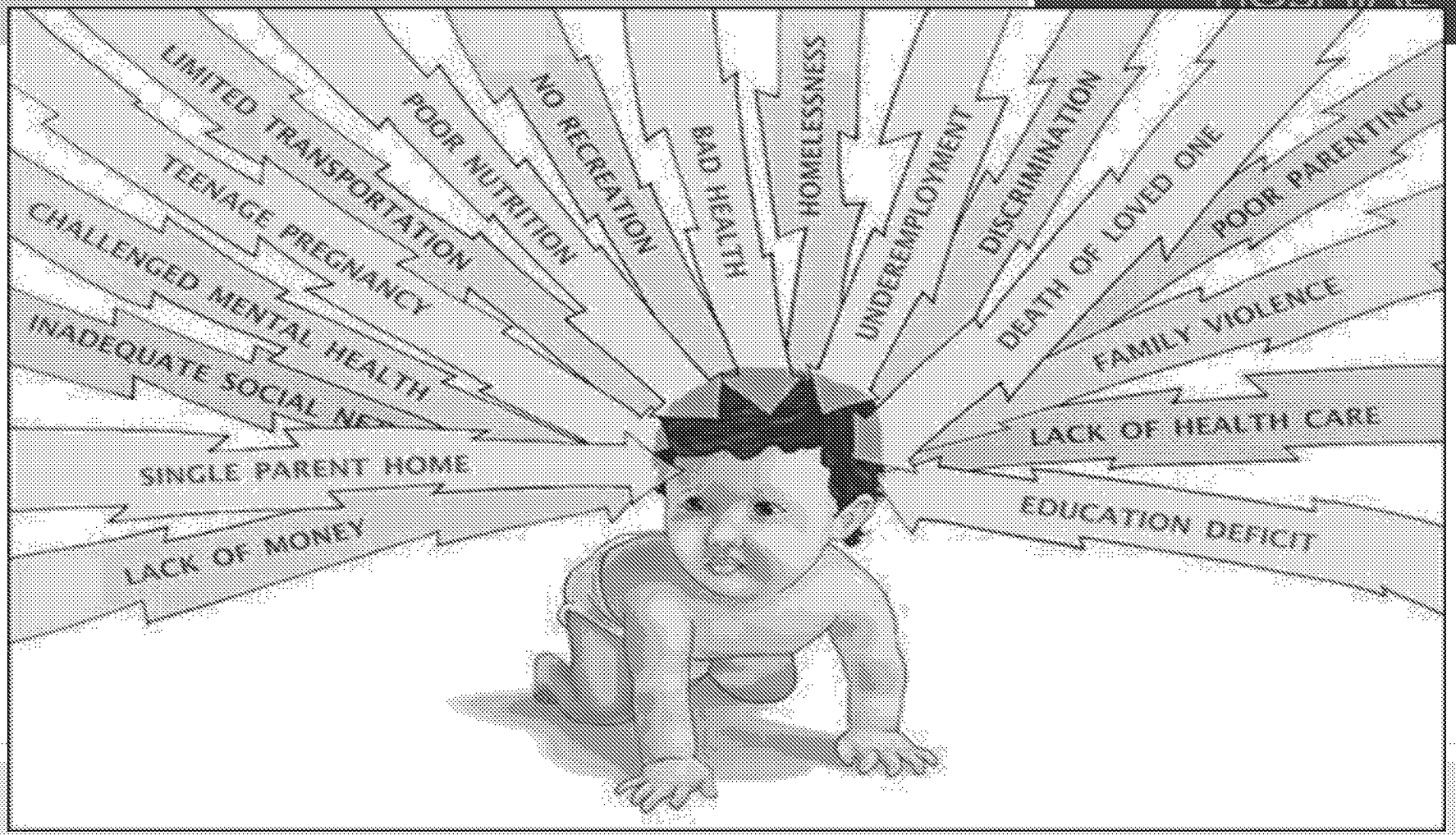

https://casaofsantacruz.wordpress.com/2014/10/08/continuing-education-webinar-how-toxic-stress-impacts-cas-children-families-communities-2/

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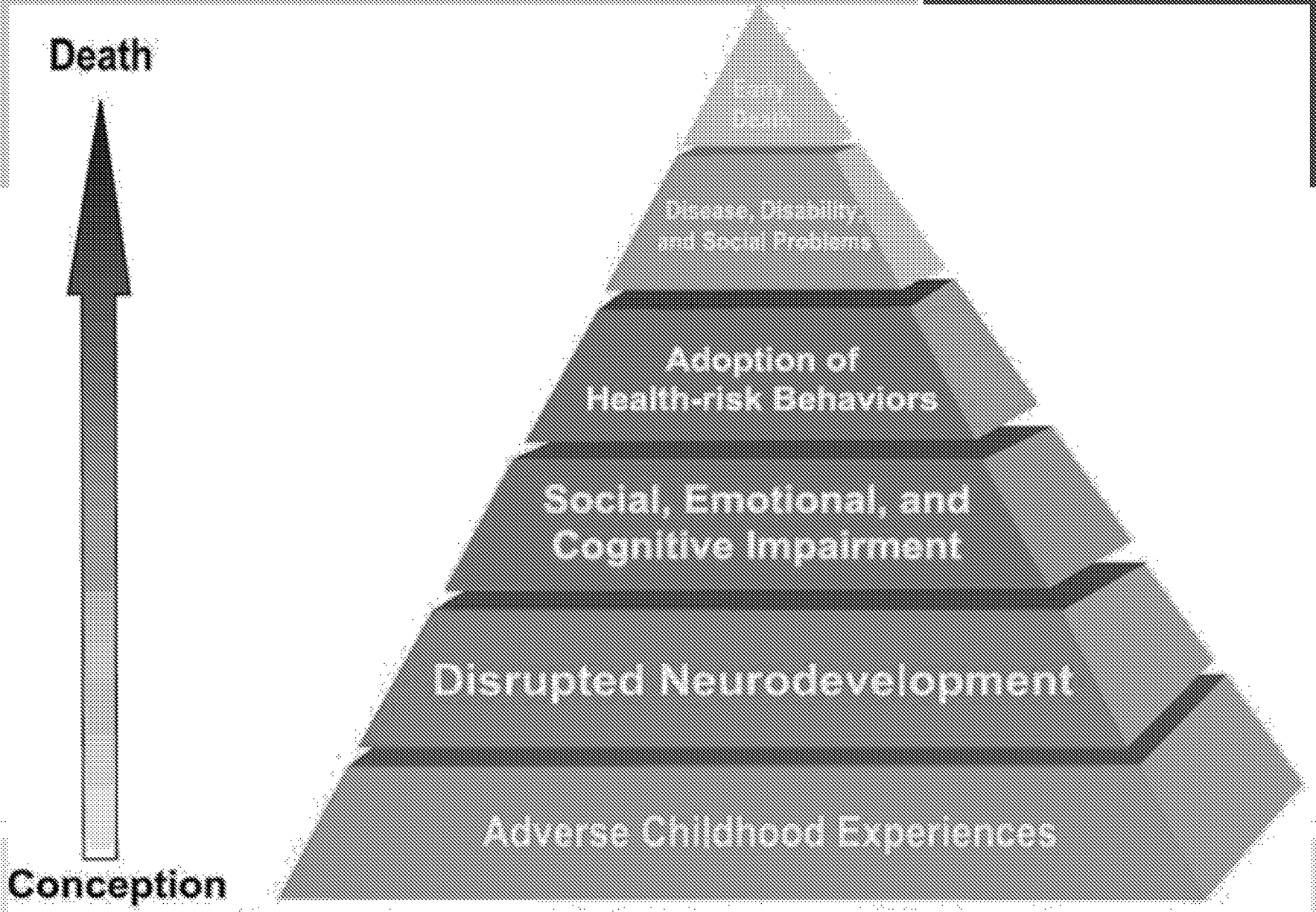
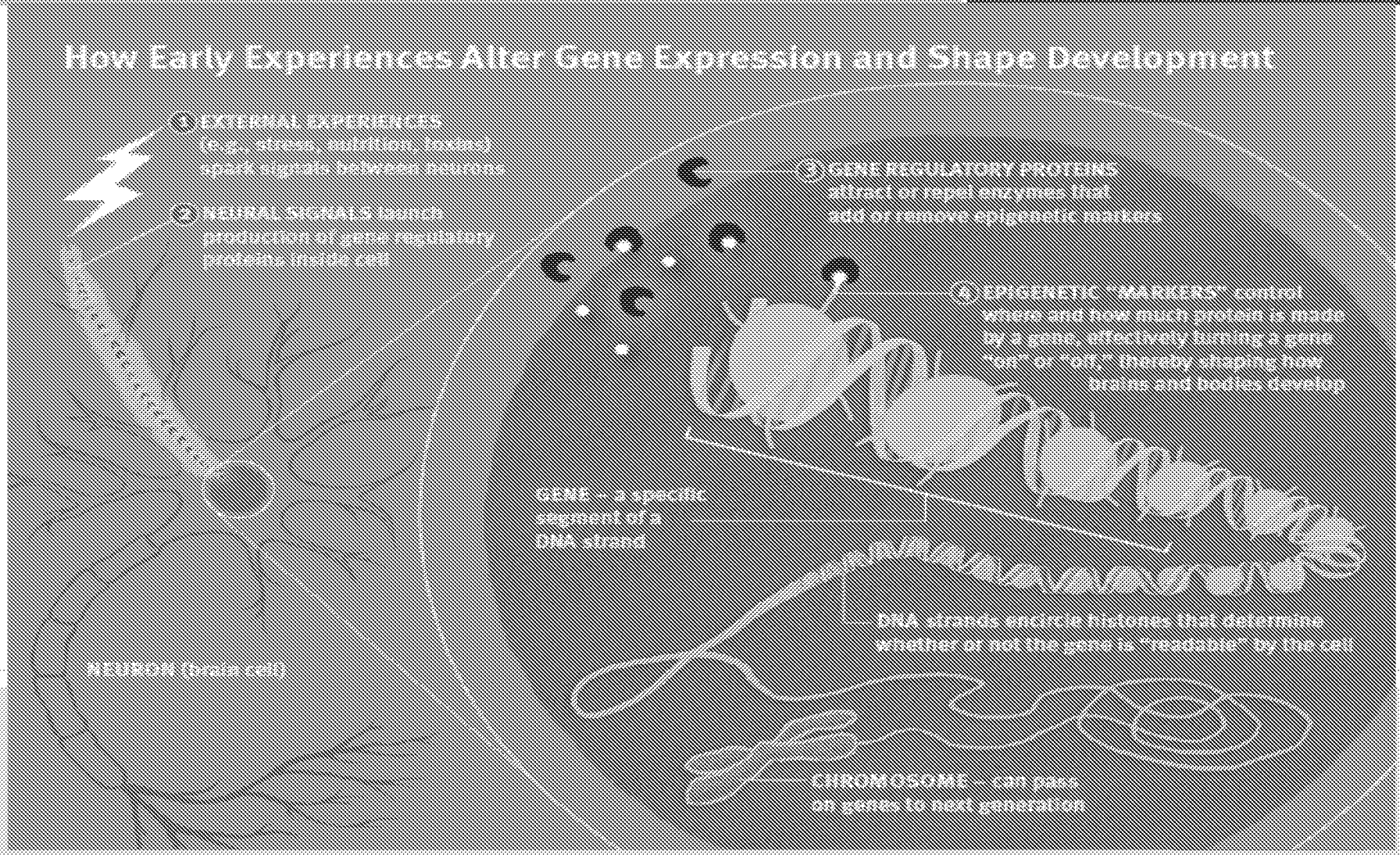


Mechanisms by Which Adverse Childhood Experiences Influence Health and Well-being Throughout the Lifespan

http://www.cdc.gov/violenceprevention/acestudy/

EPIGENETICS

HURLEY CHILDREN'S HOSPITAL



http://developingchild.harvard.edu/science/deep-dives/gene-environment-interaction/

ACE/Toxic Stress

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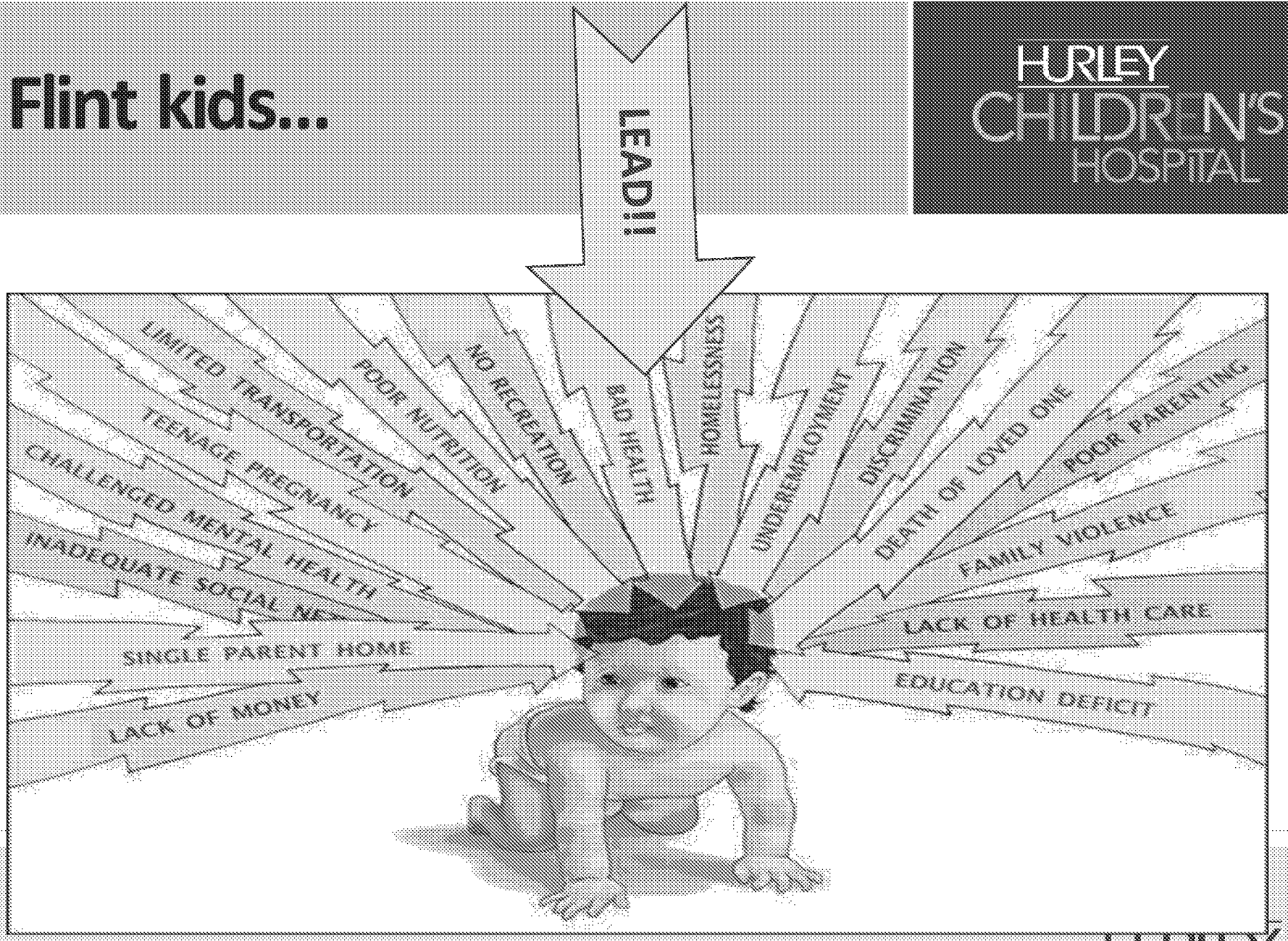
- Many chronic diseases/disparities in adults are determined decades earlier, by experiences in childhood (0-6 critical)
- Lead exposure is an ACE/toxic stress

Flint kids...

HURLEY CHILDREN'S HOSPITAL



HURLEY MEDICAL CENTER

- Now what can we do???

Research/Assessment

HURLEY CHILDREN'S HOSPITAL

- Assess the impact of the exposure
  - Health impact
    - BLL
    - Longitudinal neurodevelopmental f/u
    - Cord blood Pb, brain injury markers, epigenetics
    - Retrospective fetal deaths, IUGR
  - Nutrition impact
  - Psychosocial impact
  - Water quality/infrastructure impact
- Continued monitoring
  - Academic/public health collaborations

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Secondary Prevention

HURLEY CHILDREN'S HOSPITAL

- Unique opportunity to be proactive, to regain public trust, and to **buffer** impact of exposure
  - Short Term
  - Long Term

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Short-Term Secondary Prevention

HURLEY CHILDREN'S HOSPITAL

- Consistent, coordinated, multi-method, trusted messaging/education/risk communication/PSAs
  - Need for central command/hub/emergency response

Short-Term Secondary Prevention

HURLEY CHILDREN'S HOSPITAL

- Water still not safe (public health emergency)
  - Corrosion control optimization
  - Ongoing risk from scale disruption
  - Door to door filter/replacement distribution
    - # filters distributed approx 1/3 of homes
  - Public education re water precautions (filters, flushing, cold water, cooking, infants, etc)
  - Lead plumbing

HURLEY CHILDREN'S HOSPITAL

Secondary Prevention Evidence Based Interventions

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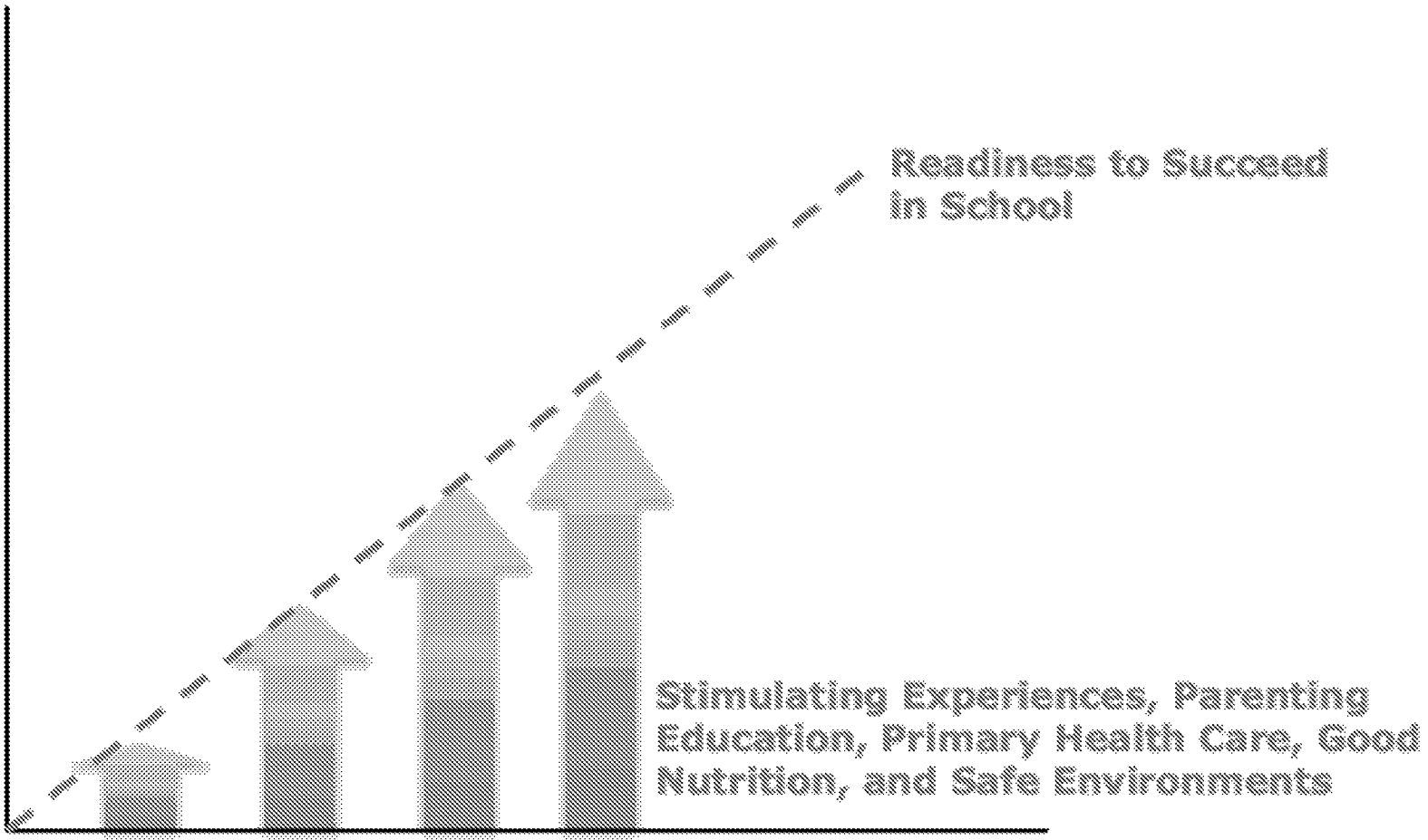
We know what works....

HURLEY CHILDREN'S HOSPITAL



https://www.aap.org/en-us/advocacy-and-policy/federal-advocacy/Documents/Panel%201%20-%20Shonkoff%20Center%20on%20the%20Developing%20Child%20Presentation.pdf

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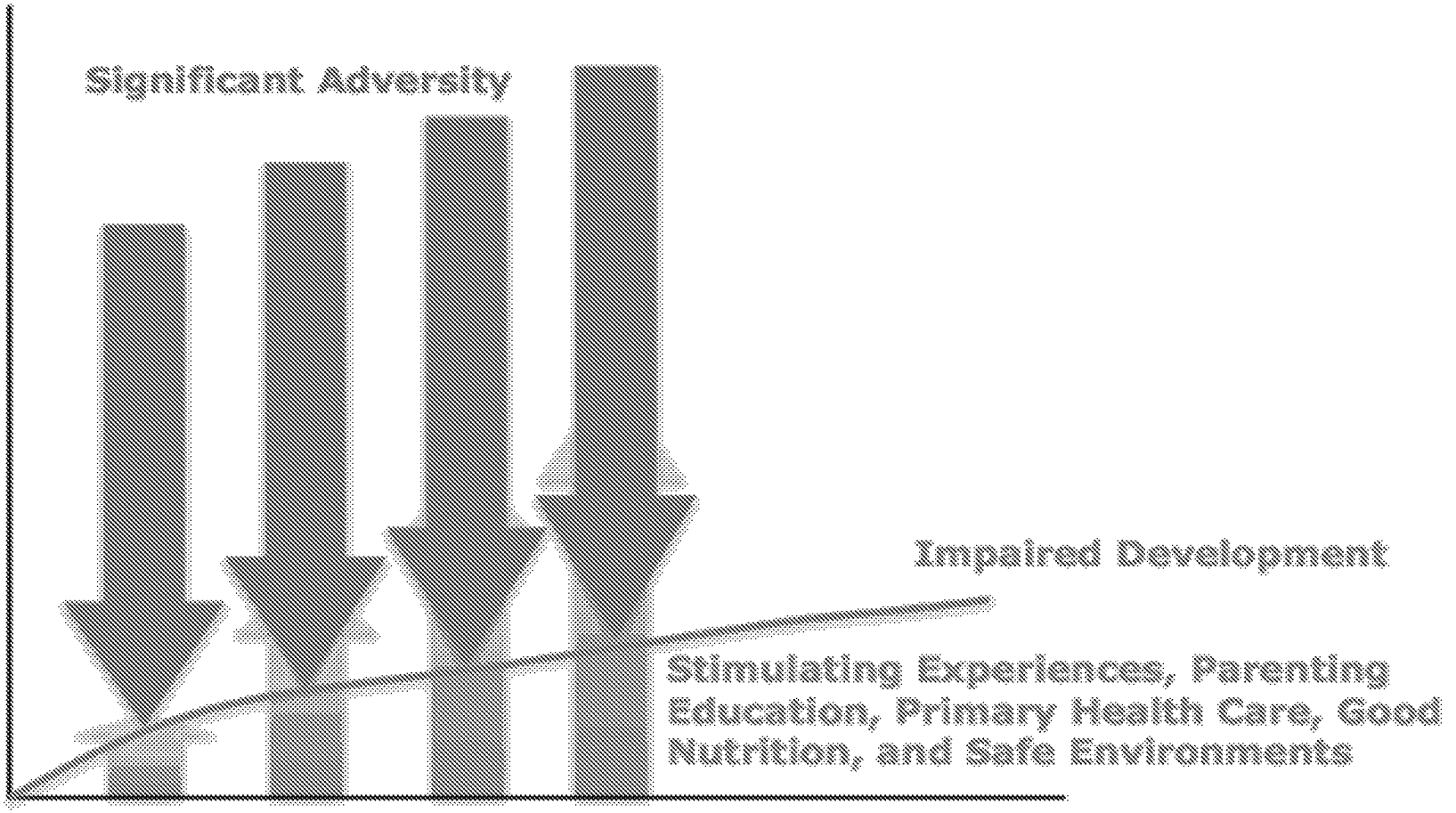
And we know what hurts...

HURLEY CHILDREN'S HOSPITAL



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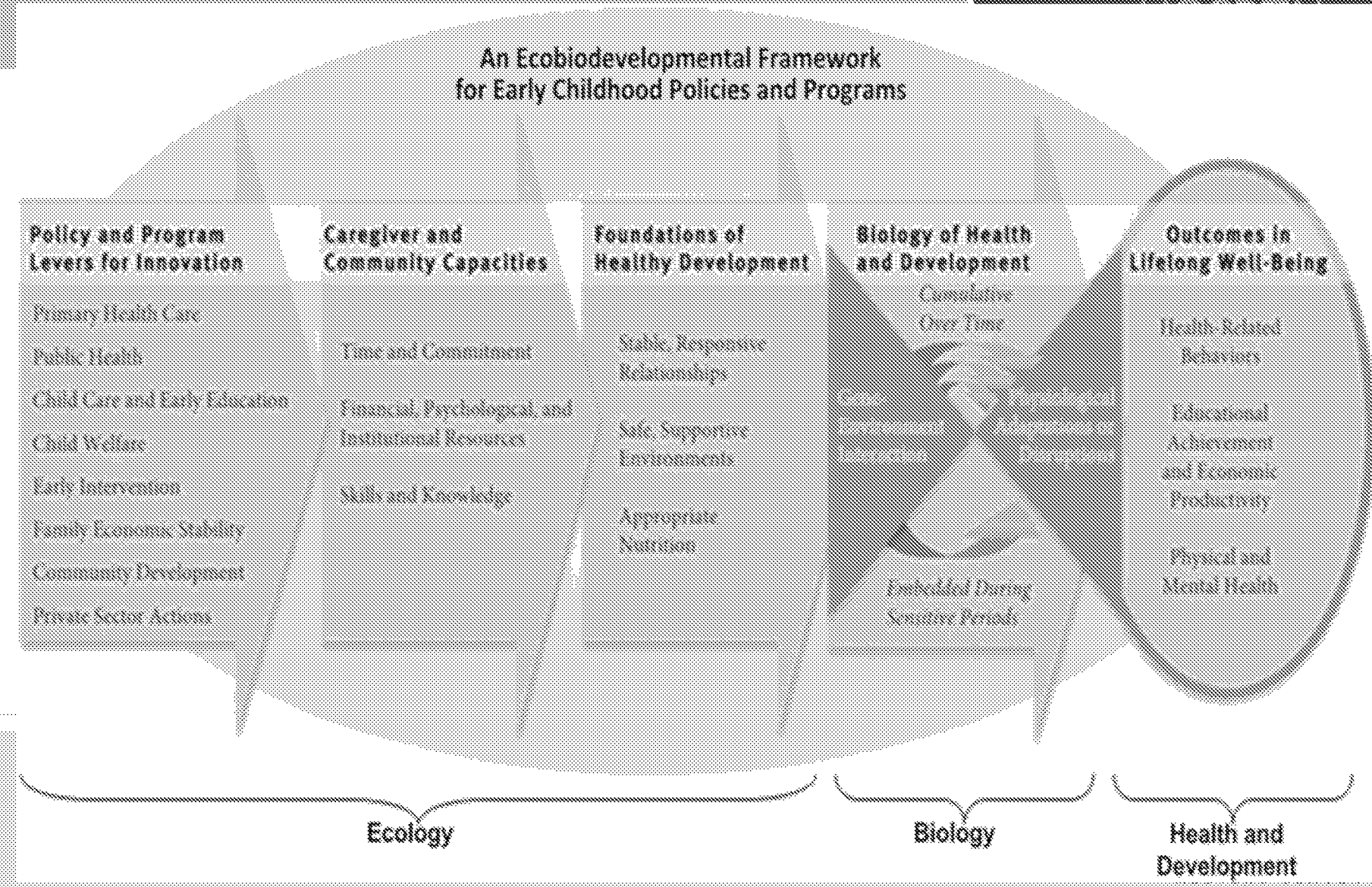
Evidence Based Interventions

HURLEY CHILDREN'S



http://pediatrics.aappublications.org/content/129/1/e232/F2.expansion.html

#flintwatercrisis
Secondary Prevention

HURLEY CHILDREN'S HOSPITAL

- Medical/Health
- Nutrition
- Education
- Caregiver capacity
- Water quality

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Secondary Prevention
Medical/Health

HURLEY CHILDREN'S HOSPITAL

- Support and education for primary care providers regarding aggressive long-term neurodevelopmental screening & testing
- Improve access to Developmental and Behavioral (DBP) specialists, pediatric psychologists, pediatric psychiatrists
  - Preemptive referral to mental health/toxic stress screening
  - Support capacity building and/or incentivize recruitment to allow Genesee Health System (CMH) to build this capacity which is currently needed and lacking
- Increase recognition and education regarding trauma informed care, social determinants of health (SDOH)
- Consider health fund/enrollment in Children's Special Health Care Services (CSHCS) for exposed kids to cover long-term needs

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Secondary Prevention Medical/Health

HURLEY CHILDREN'S HOSPITAL

- Expand state-funded Genesee Health System (CMH) services
  - Infant Mental Health (30 capacity)
  - Child case management
  - Home-based services
  - Trauma informed care – trauma focused CBT

Secondary Prevention
Medical/Health

HURLEY CHILDREN'S HOSPITAL

- Role of Medicaid HMO plans:
  - Support to drive patients to medical home: enhanced transportation, case management, HEDIS monitoring, pt incentives, mental health access, etc
  - Reimbursement for integrated social work, registered dietician, mental health services, OT/PT services
  - Encourage collaboration/mandate support of Genesee Children's Healthcare Access Program (CHAP)

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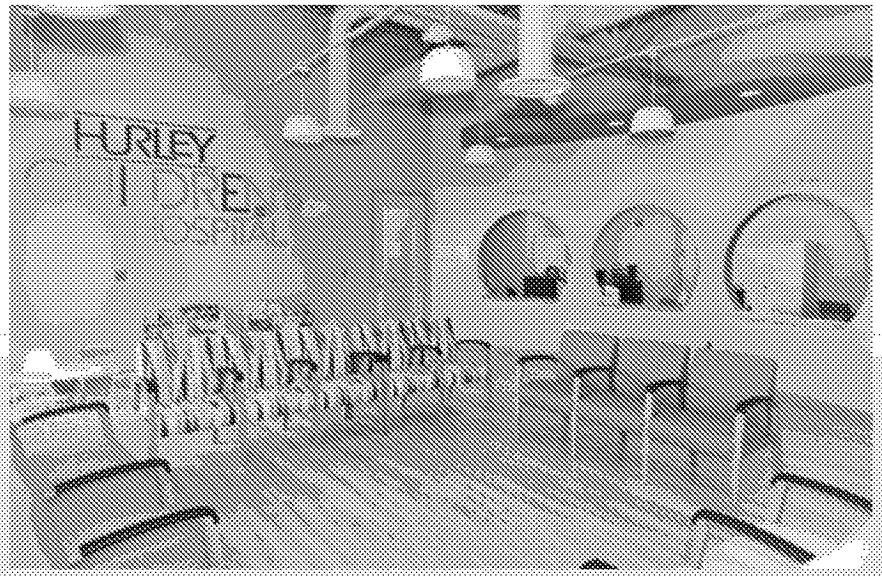
Hurley Children's Clinic

Thinking Outside The Box

HURLEY CHILDREN'S HOSPITAL



- Transportation
- Social work
- WIC RD/Nutrition
- Peds Psychology
- Training site

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Secondary Prevention
Nutrition

HURLEY CHILDREN'S HOSPITAL

- Short-term mitigation/protection
  - Promotion/education of Iron, Calcium, Vit C diets
- Promote enrollment and participation in pre-existing nutrition resources (WIC, SNAP, DUFB, MTA)
- Expand WIC eligibility, access (co-locate with PMD), benefits

Secondary Prevention
Nutrition

HURLEY CHILDREN'S HOSPITAL

- Improve food access/security efforts
  - Subsidies, pilots – grocery stores, mobile groceries, urban farming, etc
- Invest in breastfeeding promotion, education, and support services

Secondary Prevention
Education

- Subsidize quality childcare options
- Automatic referral/assessment by Early Intervention (Early On)
- Enroll all in early head start, head start
  - Universal Pre-school/Flint Pre-Promise
- Strengthen special education capacity/trained personnel

Secondary Prevention
Education

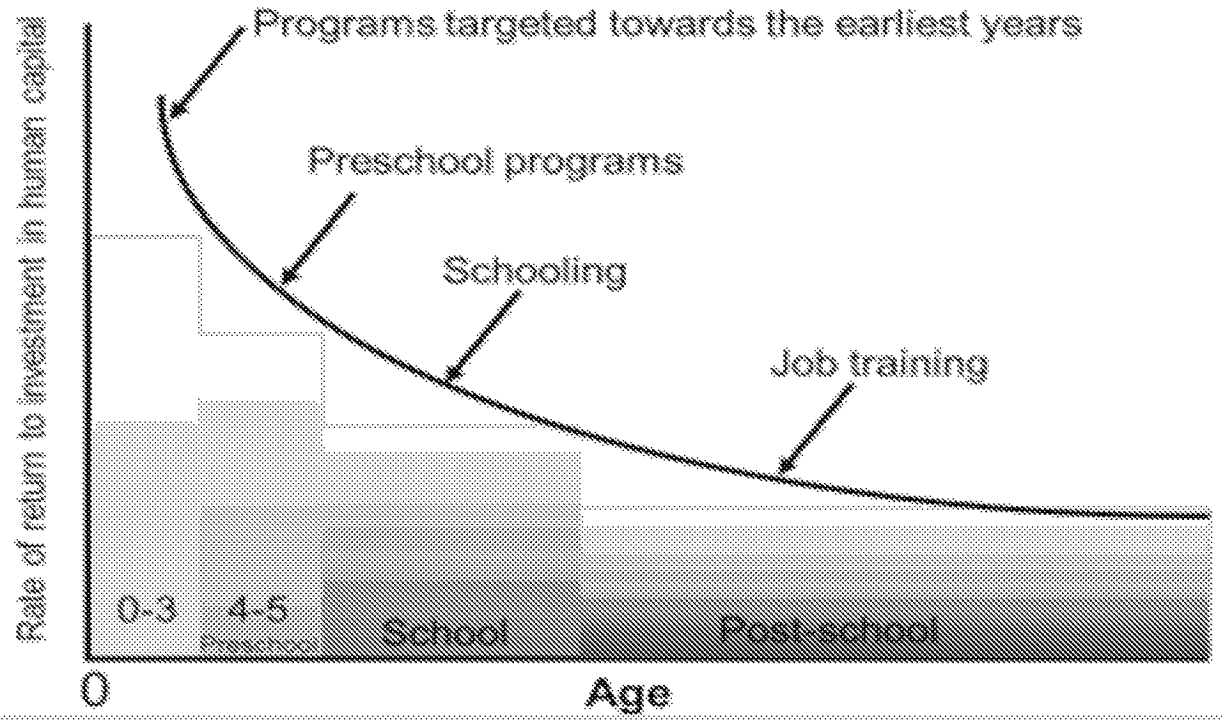
HURLEY CHILDREN'S HOSPITAL

- Invest in school health/wellness/behavioral health
  - School nurse:student ratio – MI ranked worst in country
  - 1:750 recommended
  - 1:6,500 Flint
- Place MDHHS employee at every school
- Model lead safe school campaigns
  - Proactive water testing, lead plumbing investigations
  - Lead mitigating school nutrition

Investing in Children: Younger The Better

HURLEY CHILDREN'S HOSPITAL

Rates of Return to Human Capital Investment at Different Ages: Return to an Extra Dollar at Various Ages



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Secondary Prevention
Caregiver capacity

HURLEY CHILDREN'S HOSPITAL

- Toxic stress and resilience
  - "Strong, frequent, and/or prolonged activation of the body's stress-response system in the absence of the **buffering protection of a supportive, adult relationship**."

Shonkoff, J & Garner, A. (2012) The lifelong effects of early childhood adversity and toxic stress. Pediatrics, 129(1). 232-246.

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Secondary Prevention
Caregiver capacity

HURLEY CHILDREN'S HOSPITAL

- Need to support parents and programs to improve parenting skills
- Evidence-based parenting programs
  - Incredible Years (HCH AAP Grant)
  - Triple P
  - Everyday Parenting
  - Adventures in Parenting
  - Home visiting programs
  - Strengthening Families Framework
  - Maternal Infant Health Program (MIHP)
  - Healthy Start
  - Nurse Family Partnership (NFP)

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Nurse Family Partnership

HURLEY CHILDREN'S HOSPITAL

- 56% reduction in emergency room visits for accidents and poisonings in the second year of the child's life
- 50% reduction in behavioral problems when the children enter school.
- 48% reduction in state-verified reports of child abuse and neglect by child age 15
- 39% fewer healthcare encounters for injuries or ingesions in the first two years of life
- Increase in language scores

"Nurse-Family Partnership", Early Childhood, Social Programs That Work, Coalition for Evidence-Based Policy
hVp://evidencebasedprograms.org/wordpress/?page_id=57

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Secondary Prevention
Caregiver capacity

HURLEY CHILDREN'S HOSPITAL

- Increase support for state-funded NFP, Healthy Start and MIHP
  - Hurley-run NFP capacity for 100

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Secondary Prevention
Water Safety/Infrastructure

HURLEY CHILDREN'S HOSPITAL

- Opportunity to model best practices for lead in water monitoring to protect public health rather than a focus on minimum compliance
  - EPA Flint Safe Drinking Water Taskforce
- Flint will change water source and treat water again once connected to KWA (2016), should not be rushed
- Full lead plumbing replacement (can be targeted)

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Next Steps

HURLEY CHILDREN'S HOSPITAL

- Primary prevention failed
  - Preventable population-wide exposure
- Secondary prevention must be priority

- Invest and prioritize in evidence based interventions that mitigate exposure and build childhood resilience
  - Ages 0 to 6 years critical for life course trajectory

Top Five Interventions

HURLEY CHILDREN'S HOSPITAL

1. Support for emergency response
2. Increase funding/capacity for home visiting maternal-infant support programs
3. Guarantee Flint Pre-Promise (3-5 year quality early education)
4. Fund RN in every Flint school
5. Encourage innovative Medicaid HMO plan and medical home initiatives (ie: CHAP)

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HURLEY CHILDREN'S HOSPITAL

It's easier to build strong children than to repair broken men.

Frederick Douglass, 1855

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Additional Resources

HURLEY CHILDREN'S HOSPITAL

- Harvard Center for Developing Child
  - http://developingchild.harvard.edu/
- AAP Toxic Stress Resources
  - https://www.aap.org/en-us/advocacy-and-policy/aap-health-initiatives/EBCD/Pages/Public-Health-Approach.aspx
- Strengthening Families: A Protective Factors Framework
  - http://www.cssp.org/reform/strengtheningfamilies
- CDC ACE Study
  - http://www.cdc.gov/violenceprevention/acestudy/
- *Pediatrics* articles
  - AAP Policy Statement: Early Childhood Adversity, Toxic Stress, and the Role of the Pediatrician: Translating Developmental Science Into Lifelong Health
  - AAP Technical Report: The Lifelong Effects of Early Childhood Adversity and Toxic Stress

HURLEY MEDICAL CENTER

#flintwatercrisis

HURLEY CHILDREN'S HOSPITAL

Thank you!

HURLEY MEDICAL CENTER

From: Lyon, Nick (DHHS)
Sent: Tuesday, December 15, 2015 6:26 AM
To: Mona Hanna-Attisha
Cc: Baird, Richard (GOV); Laurence Reynolds; Matthew M. Davis; Chris Kolb; Ken Sikkema; Chris De Witt; Eric Rothstein; Hollins, Harvey (GOV)
Subject: Re: Meeting with Dr. Mona Hanna-Attisha and Flint Water

Thank you for the presentation and your approach to this. When you can please share a version of the presentation I can pass in to Sue, Eden and the others in my Population Health area.

Nick

> On Dec 14, 2015, at 7:05 PM, Mona Hanna-Attisha <MHanna1@hurleymc.com> wrote:
>
>
> Mr. Baird and all the other guys,
>
> It was a pleasure meeting everyone and a privilege to present to you all. As I said, we have an incredible and unique opportunity to mitigate the impact of this population-wide exposure. If we act now, proactively, we can buffer our kids from the life-altering impacts of lead poisoning.
>
> Flint has many claims to fame (we put the world on wheels, we birthed Mr. Baird!, etc); and now, with your leadership, we can continue to build generations of strong, smart, and healthy children.
>
> If I can be of any further assistance, please don't hesitate to contact me. Email or cel PPI
>
> Thanks again, Mona
>
> Mona Hanna-Attisha MD MPH FAAP
> Program Director Pediatric Residency
> Hurley Children's Hospital at Hurley Medical Center Michigan State
> University College of Human Medicine Department of Pediatrics and
> Human Development Mhanna1@hurleymc.com<mailto:Mhanna1@hurleymc.com>
> _____
> From: Baird, Richard (GOV) [bairdr@michigan.gov]
> Sent: Thursday, December 10, 2015 2:27 PM
> Required: Baird, Richard (GOV); Laurence Reynolds; Matthew M. Davis;
> Chris Kolb; Ken Sikkema; Chris De Witt; 'Eric Rothstein'; Lyon, Nick
> (DHHS); Grijalva, Nancy (DHHS); Mona Hanna-Attisha
> Subject: Meeting with Dr. Mona Hanna-Attisha and Flint Water
> When: Monday, December 14, 2015 11:00 AM-12:00 PM.
> Where: Governor's Conference Room, 2nd Floor Romney Building, 111 S.
> Capitol Ave., Lansing, MI 48933
>
> Good Morning,
>

> This is to confirm the meeting with Rich Baird on Monday, December 14 at 11:00 a.m. in the Governor's Conference room, second floor Romney Building, 111 S. Capitol Ave. Lansing, MI 48933.
>
> We are located at the George W. Romney Building, 111 S. Capitol
> Avenue, Lansing. The Romney Building is located directly across the
> street (Capitol Avenue) from the Capitol Building. There is some
> metered parking around the building. The closest parking facility is
> one block south at the corner of Capitol Avenue and Allegan Street
> (enter the parking facility from Capitol Avenue).
> https://www.parkme.com/lot/93032/tower-parking-ramp-lansing-mi
>
> You will also want to have a picture I.D. handy for security in the Romney Building. Please let security know who you have a meeting with, they will call me and then send you up to the second floor.
>
> Please let me know if you have any questions.
>
> Thank you!
>
> Virginia Manolakoudis
> Executive Assistant for Richard Baird
> Executive Office of Governor Rick Snyder
> (517) 241-5621
> ManolakoudisV@michigan.gov<mailto:ManolakoudisV@michigan.gov>
>
>
>
>
>
>
>
> <#flintwatercrisis Secondary Prevention Recommendations 121415.pdf>

From: Etue, Kristen (MSP)
Sent: Tuesday, December 15, 2015 6:30 AM
To: Hollins, Harvey (GOV); Baird, Richard (GOV)
Cc: Kelenske, Chris (MSP)
Subject: Fwd: Water Donation

FYI.

Are you hearing that the new Mayor wants to declare a local emergency on this water issue?

The below article is reference the water we were able to identify from FEMA.

Emergency Management/Preparedness Sector

FEMA Sends 28,000 Liters of Bottled Water to Flint amid Lead Troubles

(MLive)

Flint, Michigan: The federal government is helping to replenish the bottled water supply in Flint. Two trucks delivered about 28,000 liters of water from the Federal Emergency Management Agency to the Food Bank of Eastern Michigan today, Dec. 14. The water will then be donated to "partner agencies" in the city of Flint who will distribute the water to residents. Cassie Ringsdorf, a FEMA spokeswoman, said the agency maintains commodity stockpiles at warehouses around the country and makes them available. "These commodities are available for use, within hours, should an incident occur that requires support from FEMA," Ringsdorf said in an email to The Flint Journal-MLive. A news release from the Food Bank credited Michigan State Police Lt. Billie Jo Roach with having identified the availability of the water from FEMA. Flint remains in a public health emergency and officials have said residents should not drink unfiltered tap water because of rising lead levels while the city used the Flint River as its water source from April 2014 until October 2015. The Journal could not immediately reach a representative of the MSP Emergency Management and Homeland Security Division for further comment. FEMA said the Food Bank claimed two truckloads of water and agreed to pay all transportation costs associated with the donation.

Sent from my iPhone

From: Ken Sikkema <ksikkema@pscinc.com>
Sent: Tuesday, December 15, 2015 11:09 AM
To: Hollins, Harvey (GOV)
Subject: Flint Water Advisory Task Force

Harvey:

Are you available to attend Flint Water Advisory Task Force meeting tomorrow morning? We meet from 9:30am-12:00 noon..

--

Ken Sikkema
Senior Policy Fellow
Public Sector Consultants
PH: 517-484-4954
ksikkema@pscinc.com

From: Baird, Richard (GOV)
Sent: Tuesday, December 15, 2015 11:53 AM
To: 'Mona Hanna-Attisha'; Laurence Reynolds; Matthew M. Davis; Chris Kolb; Ken Sikkema; Chris De Witt; 'Eric Rothstein'; Lyon, Nick (DHHS); Hollins, Harvey (GOV)
Subject: RE: Meeting with Dr. Mona Hanna-Attisha and Flint Water

Dr. Mona:

It was a real pleasure meeting you and thank you for the incredible work you are doing on behalf of the children in my native city. We are committed to working with you on all fronts to make the way forward the best it could be. Also, I want to let you know that I did follow up on whether the former DEQ department leader was still working on water related issues. To my surprise you were correct. When additional schools needed to be tested she was added to help with the workload. I am told she did not supervise, conclude on testing, or anything of that nature but they needed help and the director of DEQ did approve a limited role for her. He is going to be meeting with the TF tomorrow to discuss actions underway. I apologize for asserting otherwise as I had not been aware.

Please call me if I can assist in any way.

Rich

From: Mona Hanna-Attisha [mailto:MHanna1@hurleymc.com]
Sent: Monday, December 14, 2015 7:02 PM
To: Baird, Richard (GOV); Laurence Reynolds; Matthew M. Davis; Chris Kolb; Ken Sikkema; Chris De Witt; 'Eric Rothstein'; Lyon, Nick (DHHS); Hollins, Harvey (GOV)
Subject: RE: Meeting with Dr. Mona Hanna-Attisha and Flint Water

Mr. Baird and all the other guys,

It was a pleasure meeting everyone and a privilege to present to you all. As I said, we have an incredible and unique opportunity to mitigate the impact of this population-wide exposure. If we act now, proactively, we can buffer our kids from the life-altering impacts of lead poisoning.

Flint has many claims to fame (we put the world on wheels, we birthed Mr. Baird!, etc); and now, with your leadership, we can continue to build generations of strong, smart, and healthy children.

If I can be of any further assistance, please don't hesitate to contact me. Email or cell PPI

Thanks again, Mona

Mona Hanna-Attisha MD MPH FAAP
Program Director Pediatric Residency
Hurley Children's Hospital at Hurley Medical Center
Michigan State University College of Human Medicine
Department of Pediatrics and Human Development
Mhanna1@hurleymc.com

From: Baird, Richard (GOV) [bairdr@michigan.gov]
Sent: Thursday, December 10, 2015 2:27 PM
Required: Baird, Richard (GOV); Laurence Reynolds; Matthew M. Davis; Chris Kolb; Ken Sikkema; Chris De Witt; 'Eric

Rothstein'; Lyon, Nick (DHHS); Grijalva, Nancy (DHHS); Mona Hanna-Attisha
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You will also want to have a picture I.D. handy for security in the Romney Building. Please let security know who you have a meeting with, they will call me and then send you up to the second floor.

Please let me know if you have any questions.

Thank you!

Virginia Manolakoudis
Executive Assistant for Richard Baird
Executive Office of Governor Rick Snyder
(517) 241-5621
ManolakoudisV@michigan.gov

From: chris@dewitt-communications.com
Sent: Thursday, December 17, 2015 10:24 AM
To: Hollins, Harvey (GOV)
Subject: [FWD: Letter Press release]
Attachments: FWATF letter to Governor Snyder.pdf; 15.12.15 Flint Task Force Letter.pdf

Harvey

Forgot to add you on this email.

Chris De Witt
De Witt Communications
P.O. Box 4952
East Lansing, MI 48826
517-339-1700 office
PPI cell

-------- Original Message --------
Subject: Letter Press release
From: <chris@dewitt-communications.com>
Date: Thu, December 17, 2015 9:45 am
To: "Dave Murray" <MurrayD1@michigan.gov>

Dave-here is what we are sending out

December 17, 2015

Contact: Chris De Witt
PPI

Flint Water Advisory Task Force Initial Recommendations

Lansing, MI--The Flint Water Advisory Task Force today released a letter recently sent to Governor Rick Snyder, and the Governor's response, regarding initial recommendations to address health protection challenges with the Flint water supply. Copies of the letters are attached.

"We felt it was imperative to make these initial recommendations to help address the water crisis in Flint instead of waiting until our final report is submitted," said FWATF Co-Chair Chris Kolb. "We appreciate the prompt acceptance of our request for action by the Governor and see it as a step forward."

"The Task Force has been holding a number of fact finding interviews with individuals and groups that have pertinent information about what happened in

Flint," FWATF Co-Chair Ken Sikkema stated. "While the Task Force is far from done with our work, the initial review has presented a very disturbing situation that will require many actions to help those that have suffered. We saw no reason to wait until the final report to make these initial recommendations. We also anticipate that we will made additional recommendations prior to the final report."

The FWATF letter included in part:

"One primary concern we have at this point is that the current efforts appear to be taking place in the absence of a larger project coordination framework that measures results and clearly delineates responsibilities for continuing actions to protect public health. We believe the state is best positioned to facilitate this larger framework, which should address the following:

1. The need for MDHHS and MDEQ—and, possibly, other state agencies--to set **goals** for actions in collaboration with local and federal agencies and organizations.
2. The need for a set of corresponding **timelines** for the goals.
3. The need to establish **responsibility** for meeting the goals in a timely fashion and for **contingency plans** for the state if the goals are not being met.
4. The need for clear, regular **communication** with the Flint community and stakeholder groups regarding action steps and updates.

We also believe it important that a single person or entity—potentially independent of any one particular state agency and mutually agreeable to this Task Force and you, Governor—be established to provide effective coordination of ongoing activities and reporting on the status of mitigation measures. For this, we also believe a readily understood "dashboard" should be developed that reports on the goals, timelines and assignments. This will enable members of the Flint community, public health providers, and state agencies to know about the status of the Flint water crisis mitigation program, as well as promote coordination and accountability. The Task Force is prepared to assist in the development of that dashboard."

The full FWATF report is expected to be completed in early 2016.

Members of the Task Force include:

Matthew Davis, M.D., M.A.P.P., is professor of pediatrics and internal medicine at the University of Michigan Health System and professor of public policy at the Gerald R. Ford School at the University of Michigan, having joined the faculty in 2000. Davis also is a professor of health management and policy at the School of Public Health. He previously served as the chief medical executive of the Michigan Department of Community Health/Department of Health and Human Services.

Chris Kolb is president of the Michigan Environmental Council, a statewide coalition of 70 environmental, public health and faith-based nonprofit groups. Before joining the MEC, Kolb represented Ann Arbor in the state House for six

years and served six years on the Ann Arbor City Council. He has been president of the MEC for six years.

Lawrence Reynolds, M.D., is a pediatrician in Flint who serves as president of the Mott Children's Health Center. He received his medical degree from Howard University College of Medicine and has been in practice for 36 years. He has served as president of the Genesee County Medical Society and the Michigan Chapter of the American Academy of Pediatrics. He has been honored for his humanitarian and advocacy efforts on behalf of children from the Community Foundation of Greater Flint.

Eric Rothstein is a national water issues consultant and principal at the Galardi Rothstein Group. He served as an independent advisor on the creation of the Great Lakes Water Authority. Rothstein also has served as Jefferson County, Alabama's rate consultant and municipal adviser for litigation related to the county's bankruptcy and issuance of $1.7 billion in sewer warrants and led strategic financial planning for the City of Atlanta's Department of Watershed Management. He has more than 30 years of experience in water, wastewater and stormwater utility finance and rate-making assessments.

Ken Sikkema is a senior policy fellow at Public Sector Consultants, where he specializes in public finance, environment, and energy policy. Prior to joining the firm, Sikkema served in both the Michigan House and Senate, culminating with four years as Senate majority leader. He has also served as both an adjunct and visiting professor at Grand Valley State University.

The FWATF was formed by Governor Snyder to review actions regarding the Flint water system and offer recommendations both for Flint and Michigan to protect the health and safety of state residents.

Chris De Witt
De Witt Communications
P.O. Box 4952
East Lansing, MI 48826
517-339-1700 office
PPI cell

December 7, 2015

Dear Governor Snyder:

On Wednesday, November 18, 2015, the Flint Water Advisory Task Force met with representatives of the Michigan Department of Environmental Quality (MDEQ) and the Michigan Department of Health and Human Services (MDHHS) to discuss elements of the 10-point Action Plan designed to address various issues related to the ongoing public health protection challenges precipitated by lead in the Flint water supply. These discussions were held at our request as part of our task to make recommendations to prevent a similar occurrence in Flint or elsewhere, and also to monitor ongoing mitigation efforts.

Subsequent to those meetings, on Tuesday, November 24, 2015, members of the Task Force participated in a conference call with yourself, members of the Administration, and representatives of these agencies to discuss the progress to date on the 10-point Action Plan, as well as several other related issues.

We want to acknowledge the steps that have already been taken to implement the action plan, specifically in the areas of outreach efforts to facilitate blood lead testing for children, communication with health care providers in the Flint community about the importance of testing children for lead, and the training of additional public health nurses in the Genesee County Health Department. We do believe, however, that additional steps need to be taken to reach additional children for blood lead testing, assure proper follow-up with children found to have elevated blood lead levels, and to continue water testing. We will continue to assess state and local efforts and make recommendations regarding specific steps that we believe are warranted.

One primary concern we have at this point is that the current efforts appear to be taking place in the absence of a larger project coordination framework that measures results and clearly delineates responsibilities for continuing actions to protect public health. We believe the state is best positioned to facilitate this larger framework, which should address the following:

1. The need for MDHHS and MDEQ—and, possibly, other state agencies--to set **goals** for actions in collaboration with local and federal agencies and organizations.
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3. The need to establish **responsibility** for meeting the goals in a timely fashion and for **contingency plans** for the state if the goals are not being met.
4. The need for clear, regular **communication** with the Flint community and stakeholder groups regarding action steps and updates.

We also believe it important that a single person or entity—potentially independent of any one particular state agency and mutually agreeable to this Task Force and you, Governor—be established to provide effective coordination of ongoing activities and reporting on the status of mitigation measures. For this, we also believe a readily understood “dashboard” should be developed that reports on the goals, timelines and assignments. This will enable members of the Flint community, public health providers, and state agencies to know about the status of the Flint water crisis mitigation program, as

well as promote coordination and accountability. The Task Force is prepared to assist in the development of that dashboard.

We believe it is vitally important that trusted members of the Flint community be engaged in communication on this issue, as well as the distribution of information conveyed by our suggested dashboard reporting. Accordingly, in advance of our final report, we would like to ensure the independent coordinator suggested above engage trusted community groups to begin rebuilding community trust in state actions.

We appreciate your personal interest in this issue, commitment to assisting the Task Force in our review, and—most importantly—commitment to ensuring that the full measure of state resources are brought forward to protect the public health in Flint and throughout the state.

Respectfully yours,

Flint Water Advisory Task Force:

Dr. Matt Davis

Chris Kolb

Dr. Larry Reynolds

Eric Rothstein

Ken Sikkema

From: Baird, Richard (GOV)
Sent: Wednesday, December 23, 2015 1:04 PM
To: Hollins, Harvey (GOV)
Subject: Role
Attachments: FLint Outline of Role and Responsibility.docx

Outline of Role and Responsibility—Harvey Hollins
Flint After Action Task Force and Local/County/State Coordination
Key Activities Draft

I. Confirm key stakeholders that should convene on a regular basis to do the following:

   a. Identify resources and support required to manage continued testing, cognitive assessment, updates on progress, impediments, community outreach, etc.

   b. Assess delivery of resources protocols and adjust (door to door, neighborhood centers, etc.)

   c. Agree a communications strategy within the stakeholder community and aggressively inform the residents of Flint of resources available and consequences of inaction.

II. Create a short/medium and long term plan to capture roles and responsibilities at the local, county, state (and federal if appropriate) levels which will be reviewed and approved by the key stakeholder body.

III. Be responsive to mayor, media, residents and all stakeholders about what currently is being done and how the way forward is being envisioned and agreed by stakeholder leadership.

IV. Work to eliminate duplication of effort and ensure that members of the science community engaged in assessing and protecting the public health have unfettered access to data, reports, etc. and establish a mutually agreeable process to surface and resolve conflicting interpretations of data when it occurs.

V. Coordinate with State departments (DHHS, DEQ, Executive Office) to secure funding needed and subject matter resources to ensure long term monitoring and remediation efforts.

VI. Ensure that the recommendations of the After Action Task Force are executed.

VII. Provide weekly status updates to Governor Snyder and members of his team charged with supporting the Chief Coordinator.

VIII. Determine how what is being done in Flint is relevant to other communities and needs to be shared as part of a state wide strategy. This may also impact future policy development to address long term infrastructure remediation.

From: Chris Kolb <chris@environmentalcouncil.org>
Sent: Monday, January 04, 2016 6:59 AM
To: Ken Sikkema
Cc: Baird, Richard (GOV); Hollins, Harvey (GOV)
Subject: Re: DRAFT DOCUMENTS: For Mayor Weaver

Rich,

Thanks for sharing this document with us. I agree with both of Ken's points and will add my two-cents as well.

One point you might want to consider, is that you have identified goals of the FWIACC that appear to be more near-term goals or action items. You may want to include an actual stated goal or goals that are more long-term or when achieved will determine when the work of the FWIACC is complete.

"Ensure safe drinking water for the residents of Flint, access to health and wrap-around services for all impacted children; ensure safe and reliable drinking water when the implementation of the switch to the KWA water source occurs; and, address long-term infrastructure needs, including replacement of lead service lines, for both the treatment and distribution of safe drinking water in Flint."

I think the Mayor will be interested in how this process will produce results; bring needed resources; correct the water situation in Flint; provided the necessary access to health services, et al., to mitigate the impact on children; and, move the City to self-governance.

It will be very important to listen to what the Mayor has to say and help to address her needs to provide resources and services to her community, and be more than willing to modify the plan based upon her input.

Thanks!

Chris

On Sun, Jan 3, 2016 at 8:15 PM, Ken Sikkema <ksikkema@pscinc.com> wrote:
Rich:

This looks very good to me at first reading...a couple of thoughts:

(1) Key is convincing Mayor Weaver that this approach should be supported & embraced regardless of the fate of any federal declaration--I.e., this is the "bird in the hand" that is focused on the real on-going health needs, versus the federal "bird in the bush" that is not properly focused on long-term needs.

(2) EO is critical to the success of this....it establishes structure that is inclusive at the same time it can insure accountability--benchmarks & metrics need to be included. The EO can create a structure that has the potential to be more relevant, effective, and long-term than federal "declaration."

I like it.

Ken

On Sunday, January 3, 2016, Baird, Richard (GOV) <bairdr@michigan.gov> wrote:
Ken/Chris:

We have been working on this since over the holiday break. Governor Snyder asked Harvey Hollins to send the proposal draft and draft Coordinating Committee chart to Mayor Weaver a little while ago.

We intend to stand the Committee up immediately, adjust pursuant to the Mayor's meeting with the Governor next week, and use the Executive Order capabilities of the Governor to make this group a structural long term body addressing the needs of Flint.

Call me if you have any questions. Hope you had a good holiday period.

Thanks,

Rich

Sent from my iPad

From: "Holland, Meegan (GOV)" <HollandM2@michigan.gov<mailto:HollandM2@michigan.gov>>
Date: January 3, 2016 at 3:23:12 PM EST
To: "Hollins, Harvey (GOV)" <hollinsh@michigan.gov<mailto:hollinsh@michigan.gov>>
Subject: DRAFT DOCUMENTS: For Mayor Weaver

Meegan Holland
Director of Communications for Gov. Rick Snyder
Office: 517-335-6397
Mobile: PPI
Twitter: @meholland

--

Ken Sikkema
Senior Policy Fellow
Public Sector Consultants
PH: 517-484-4954
ksikkema@pscinc.com

--
Chris Kolb, President & CEO
Michigan Environmental Council
602 W. Ionia

Lansing, MI 48933

517.487.9539 (office)
517.487.9541 (fax)
PPI (cell)

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www.twitter.com/ckolb
www.twitter.com/michenvcouncil

From: Baird, Richard (GOV)
Sent: Monday, January 04, 2016 8:19 AM
To: 'Chris Kolb'; Ken Sikkema
Cc: Hollins, Harvey (GOV)
Subject: RE: DRAFT DOCUMENTS: For Mayor Weaver

Thank you both. This is helpful. While nearing final form, this is still a draft and subject to the Mayor's input and endorsement which I hope was clear. Agree on all points except the long term infrastructure issues will be a bit out of scope for this group. That is going to be more of a legislative/executive policy and funding effort that will need a lot of local input as well.

Regards,

Rich

From: Chris Kolb [mailto:chris@environmentalcouncil.org]
Sent: Monday, January 04, 2016 6:59 AM
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Cc: Baird, Richard (GOV); Hollins, Harvey (GOV)
Subject: Re: DRAFT DOCUMENTS: For Mayor Weaver

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Date: January 3, 2016 at 3:23:12 PM EST
To: "Hollins, Harvey (GOV)" <hollinsh@michigan.gov<mailto:hollinsh@michigan.gov>>
Subject: DRAFT DOCUMENTS: For Mayor Weaver

Meegan Holland
Director of Communications for Gov. Rick Snyder
Office: 517-335-6397
Mobile: PPI
Twitter: @meholland

--

Ken Sikkema
Senior Policy Fellow
Public Sector Consultants
PH: 517-484-4954
ksikkema@pscinc.com

--

Chris Kolb, President & CEO
Michigan Environmental Council
602 W. Ionia
Lansing, MI 48933

517.487.9539 (office)
517.487.9541 (fax)
PPI (cell)

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www.environmentalcouncil.org
www.twitter.com/ckolb
www.twitter.com/michenvcouncil

From: Mona Hanna-Attisha <MHanna1@hurleymc.com>
Sent: Tuesday, January 05, 2016 10:31 AM
To: Baird, Richard (GOV); Hollins, Harvey (GOV)
Subject: Education

Happy New Year!

We are having a brainstorming meeting this Thursday (2pm Flint) regarding the critical role of education in regards to the lead exposure. The small meeting (15ish people) will include pediatricians, Mott Foundation, Sen Peters staff, pastors, MSU, Flint superintendent, and county early education folks.

We would welcome anyone from Michigan Department of Education - I was thinking about reaching out to Susan Broman from the Office of Great Start. But let me know what you think may be best.

Thanks! Mona

Mona Hanna-Attisha MD MPH FAAP
Program Director Pediatric Residency
Hurley Children's Hospital at Hurley Medical Center
Michigan State University College of Human Medicine
Department of Pediatrics and Human Development
Mhanna1@hurleymc.com

From: Baird, Richard (GOV)
Sent: Tuesday, January 05, 2016 12:53 PM
To: Whiston, Brian (MDE)
Cc: Hollins, Harvey (GOV)
Subject: Flint

Brian,

Would you consider having someone from MDE attend? Dr. Mona is at the center of our planning for remediation in light of the Flint water emergency. Happy to talk real time.

Thanks,

Rich

Sent from my Verizon Wireless 4G LTE DROID
---------- Forwarded message ----------
From: Mona Hanna-Attisha <MHanna1@hurleymc.com>
Date: Jan 5, 2016 10:31 AM
Subject: Education
To: "Baird, Richard (GOV)" <bairdr@michigan.gov>,"Hollins, Harvey (GOV)" <hollinsh@michigan.gov>
Cc:

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Thanks! Mona

Mona Hanna-Attisha MD MPH FAAP
Program Director Pediatric Residency
Hurley Children's Hospital at Hurley Medical Center
Michigan State University College of Human Medicine

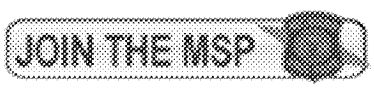
Department of Pediatrics and Human Development
Mhanna1@hurleymc.com

From: Kelenske, Chris (MSP)
Sent: Wednesday, December 30, 2015 11:26 AM
To: Baird, Richard (GOV); Hollins, Harvey (GOV)
Cc: Etue, Kriste (MSP); Gorski, Gary (MSP)
Subject: Request for Flint Resource List

Per your request and our earlier discussion, below is the email I sent to the Flint City Administrator requesting the list of resource needs. Anything you can do to get this would be appreciated.

Chris

Begin forwarded message:

> **From:** "Kelenske, Chris (MSP)" <KelenskeC@michigan.gov>
> **Date:** December 22, 2015 at 8:54:27 AM EST
> **To:** "nhenderson@cityofflint.com" <nhenderson@cityofflint.com>
> **Cc:** "Roach, Billie Jo (MSP)" <RoachB@michigan.gov>, "skammer@cityofflint.com" <skammer@cityofflint.com>
> **Subject: Needed Resources**
>
> Natasha
>
> It was a pleasure to meet you yesterday and I appreciate the dialogue we were able to have. It was mentioned that Flint has a list of resource needs. Can I get a copy of that list so we can look at ways we may be able to assist the City of Flint?
>
> Chris
>
> Capt. Chris A. Kelenske
> Deputy State Director/Commander
> Emergency Management and Homeland Security Division
> Michigan State Police
> 4000 Collins Road
> Lansing, MI 48910
> (517) 333-5042
>
> "A PROUD tradition of SERVICE through EXCELLENCE, INTEGRITY, and COURTESY."
>
> 
>

From: Kelenske, Chris (MSP)
Sent: Wednesday, December 30, 2015 12:23 PM
To: Baird, Richard (GOV); Etue, Kriste (MSP); Hollins, Harvey (GOV)
Cc: Gorski, Gary (MSP)
Subject: FEMA Respons to Rep Kildee - Sept 2015
Attachments: 09-22-15 Kildee Requesting Temporary Assistance for Lead in Flint Water.pdf; Rep Kildee Response 9-28-15.pdf

I mentioned on the call the only thing in writing FEMA has provided is the attached letter from our FEMA Region V Administrator. Both the request from Rep Kildee and the response from FEMA is attached.

Chris

Capt. Chris A. Kelenske
Deputy State Director/Commander
Emergency Management and Homeland Security Division
Michigan State Police
4000 Collins Road
Lansing, MI 48910
(517) 333-5042

"A PROUD tradition of SERVICE through EXCELLENCE, INTEGRITY, and COURTESY."

DANIEL T. KILDEE
5TH DISTRICT, MICHIGAN

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Washington, DC 20515

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(202) 225-3611
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(810) 238-8627
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@REPDANKILDEE

September 22, 2015

Secretary Sylvia Matthews Burwell
U.S. Department of Health & Human Services
HHS Office of the Secretary
200 Independence Avenue, S.W.
Washington, DC 20201

Administrator William Craig Fugate
Federal Emergency Management Agency
500 C Street, S.W.
Washington, DC 20472

Administrator Gina McCarthy
Environmental Protection Agency
Office of the Administrator 1101A
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460

Director Tom Frieden
Centers for Disease Control and Prevention
1600 Clifton Road
Atlanta, GA 30329

Secretary Burwell, Administrator McCarthy, Administrator Fugate and Director Frieden:

Recent developments regarding the level of lead in the water in one of the communities I represent, Flint, Mich., have raised significant concerns about the safety of its drinking water. For this reason, I am requesting immediate resources to provide safe drinking water to the residents of Flint until additional testing can be completed that confirms the water is safe, particularly for young children.

Although the city of Flint and the Michigan Department of Environmental Quality have conducted tests and taken the position that the lead level in the water is safe and below the action level, there are significant questions about the efficacy of their testing. In fact, Dr. Marc Edwards of Virginia Tech University, an established drinking water expert, conducted his own tests as part of a study that determined the water in Flint was above the lead action level.

Additionally, yesterday the Greater Flint Health Coalition, a group of health professionals in the community, released a report showing elevated blood lead levels in residents in Flint, particularly in young children. In response, the Coalition has requested that the Genesee County Health Department release a health advisory indicating that the water in Flint is unsafe to drink.

Thus, I am requesting resources from your agency to provide clean drinking water to the residents of Flint until additional testing can determine when the water will be safe to drink and a long-term solution can be implemented.

This is a serious health issue, particularly for young children, and until the water is demonstrated to be safe, immediate action must be taken to ensure Flint's residents have potable drinking water.

I look forward to working with you and thank you for your immediate attention.

Sincerely,

Dan Kildee
MEMBER OF CONGRESS

U.S. Department of Homeland Security
Region V
536 South Clark Street, Floor 6
Chicago, IL 60605

FEMA

September 28, 2015

The Honorable Dan Kildee
United States House of Representatives
227 Cannon House Office Building
Washington, D.C. 20515

Dear Representative Kildee:

This is in response to your letter of September 22, 2015, to Federal Emergency Management Agency (FEMA) Administrator Craig Fugate, as well as the U.S. Department of Health and Human Services, Centers for Disease Control and Prevention and the Environmental Protection Agency. You requested federal assistance to provide safe drinking water to residents of the City of Flint, Michigan, until additional testing confirms that the water is safe. Administrator Fugate requested that I respond to you because Michigan is within FEMA Region V.

As you may be aware, the Robert T. Stafford Disaster Relief and Emergency Assistance Act, Public Law 93-288, as amended, authorizes FEMA to provide federal assistance to a state after the governor requests that the president issue a disaster declaration and the president approves the request because it has been determined that the severity and magnitude of the incident exceeds local, tribal and state capabilities. If providing safe water to its residents is beyond the city's capability, the city, through Genesee County Emergency Management, should contact the Michigan State Police Division of Emergency Management and Homeland Security. However, in this situation, it may be more expedient and practical to pursue water sources from other local or private sector entities.

If you have questions or would like additional information, please contact me or have a member of your staff contact my Congressional Affairs Specialist, Dan Shulman, at (312) 408-4427.

Sincerely,

Andrew Velasquez III
Regional Administrator

cc: Capt. Chris Kelenske
Deputy State Director
Emergency Management and Homeland Security Division
Michigan State Police

From: Baird, Richard (GOV)
Sent: Wednesday, December 30, 2015 8:56 PM
To: Hollins, Harvey (GOV)
Subject: Fwd: RE: Attorney Client Work Product (Draft), Privileged and Confidential

Not Responsive

Sent from my Verizon Wireless 4G LTE DROID
---------- Forwarded message ----------
From: "Kelenske, Chris (MSP)" <KelenskeC@michigan.gov>
Date: Dec 30, 2015 8:38 PM
Subject: RE: Attorney Client Work Product (Draft), Privileged and Confidential
To: "Creagh, Keith (DNR)" <creaghk@michigan.gov>,"Baird, Richard (GOV)" <bairdr@michigan.gov>
Cc: "Agen, Jarrod (GOV)" <AgenJ@michigan.gov>,"Clement, Elizabeth (GOV)" <clemente@michigan.gov>,"Hollins, Harvey (GOV)" <hollinsh@michigan.gov>,"Holland, Meegan (GOV)" <HollandM2@michigan.gov>,"Murray, David (GOV)" <MurrayD1@michigan.gov>,"Redford, James (GOV)" <RedfordJ@michigan.gov>,"Becker, Timothy (DHHS)" <beckert1@michigan.gov>,"Roberts, John (DTMB)" <RobertsJ9@michigan.gov>,"Etue, Kriste (MSP)" <EtueK@michigan.gov>,"Lyon, Nick (DHHS)" <LyonN2@michigan.gov>

Not Responsive

From: Creagh, Keith (DNR)
Sent: Wednesday, December 30, 2015 8:15 PM
To: Baird, Richard (GOV)
Cc: Agen, Jarrod (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Kelenske, Chris (MSP); Holland Meegan (GOV); Murray, David (GOV); Redford, James (GOV); Becker, Timothy (DHHS); Roberts, John

(DTMB); Etue, Kriste (MSP); Lyon, Nick (DHHS)
Subject: Re: Attorney Client Work Product (Draft), Privileged and Confidential

Not Responsive

Not Responsive The individual I was speaking with wanted to further explore:

Increased funding/focus for Head start to get ahead of the curve

School nutrition and distribution systems (year around)

Fresh produce/local foods

Individual health screening

Infrastructure improvements

I know most if not all are identified in the outline but might want to further explain the nutrition component if the Docs in the group say it might be beneficial for those involved.

Thanks again-Keith

Sent from my iPad

On Dec 30, 2015, at 6:57 PM, Baird, Richard (GOV) <bairdr@michigan.gov> wrote:

> Team:
>
> Today Harvey and I met with the Flint Water Task Force. It was a good meeting. People were pleased with the G's statement from the prior day. Captain Kelenske joined us and we had a very good discussion about moving forward with the creation of the Flint Water Crisis Agency Coordinating Committee (FIACC). Tim Becker and Captain Kelenske provided me with a fair amount of input. I also read the City of Flint Incident Action Plan for a State of Emergency

which Chris received today (enclosed for those who wish to read it as well). I have distilled all of this into a two page plan that I want your edits and comments on and a one page organizational chart (now presented in the "governor's colors" according to our fine people in Communications). Spoiler alert—I made Captain Kelenske Vice Chair of the whole shebang (with the Colonel's blessing) so Harvey wouldn't get lonely.

Here is my ask of you:

1) Within 24 (sooner if you can) hours give me your comments and input

2) Tomorrow I will turn around a final document for Jarrod to review with the Governor either New Year's Day or Saturday

3) Ideally, Governor will approve Harvey sending it to Mayor Weaver Saturday (Sunday latest)

4) Mayor needs to know that this is what the Governor wishes to discuss at the meeting January 7 along with financial resources that we still need some estimates on cost from DHHS for

5) Meegan and Dave need to noodle how best to get out front with this and change the narrative focus on Monday's Genesee County declaration of emergency

I know we are all working way too hard for what should be a rest and recharge period but I do appreciate everyone's efforts and I know the Boss really does as well.

Regards,

Rich

<A Proposal to Create the Flint Water Inter.docx>

<IA Coord Com Org Chart.jpg>

<IAP Flint Water 2015-12-29.pdf>

From: Hollins, Harvey (GOV)
Sent: Wednesday, December 30, 2015 9:17 PM
To: Baird, Richard (GOV)
Subject: Re: Attorney Client Work Product (Draft), Privileged and Confidential

Not Responsive

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To: Baird, Richard (GOV)
Cc: Agen, Jarrod (GOV); Clement, Elizabeth (GOV); Hollins, Harvey (GOV); Kelenske, Chris (MSP); Holland, Meegan (GOV); Murray, David (GOV); Redford, James (GOV); Becker, Timothy (DHHS); Roberts, John (DTMB); Etue, Kriste (MSP); Lyon, Nick (DHHS)
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<IA Coord Com Org Chart.jpg>

<IAP Flint Water 2015-12-29.pdf>

From: Hollins, Harvey (GOV)
Sent: Sunday, January 03, 2016 5:27 PM
To: weaverkaren@sbcglobal.net
Subject: Per Our Conversation
Attachments: DRAFT Coord Com Org Chart 233264.pptx; FWIACC document v2.docx

Mayor Weaver:

Per our conversation, Governor Snyder and several members of his team are committed to acting now, with the State, City and County in partnership, and not wait on any federal action or determination on an emergency declaration. If a federal emergency declaration is issued, this will be part of the combined response effort and will help marshal more resources towards resolving the issues facing Flint. Right now though, the Governor wishes to immediately implement an action plan with State and Local entities and bring together agencies and stakeholders.

Our working draft title is the Flint Water Inter-Agency Coordinating Committee (FWIACC), and it would immediately address ways to restore safe water and monitor/mitigate the effects of the lead.

In addition to Governor Snyder, the key officials working on this blueprint were MSP Capt. Chris Kelenske, DHHS Chief Deputy Tim Becker, DHHS Director Nick Lyon, the Governor's Transformation Advisor Rich Baird and myself. The need for engaged central coordination has also been recommended by the Governor's Flint Water After-Action Task Force, of which Dr. Larry Reynolds is a member. Governor Snyder has endorsed this approach and has asked me to provide you with a draft copy in advance of your meeting with him on January 7. If you agree, we will organize this committee immediately, and the Governor will issue an executive order authorizing FWIACC to work on the issue for the long term .

As you know, there is a significant amount of work to be done before the Federal government will approve an emergency declaration under the Stafford Act. FWIACC could begin its work immediately and would be in place to complement, not replace any action group ultimately formed by an emergency declaration. And we believe it would demonstrate how to best leverage essential support addressing manmade emergencies like this, since existing laws are more oriented toward natural disasters.

We brainstormed who should be included in this initial emergency response, with the idea that you and other stakeholders may have recommendations on others who need to be added.

Attached are two draft documents that defines the FWIACC. You will note the organization chart and the proposal description is not a normal hierarchical entity. This is a collaborative, stakeholder-driven partnership. Chris and I would facilitate it, but it is a partnership of city, county and state viewpoints, and would include outside experts like Marc Edwards and Dr. Mona Hanna-Attisha.

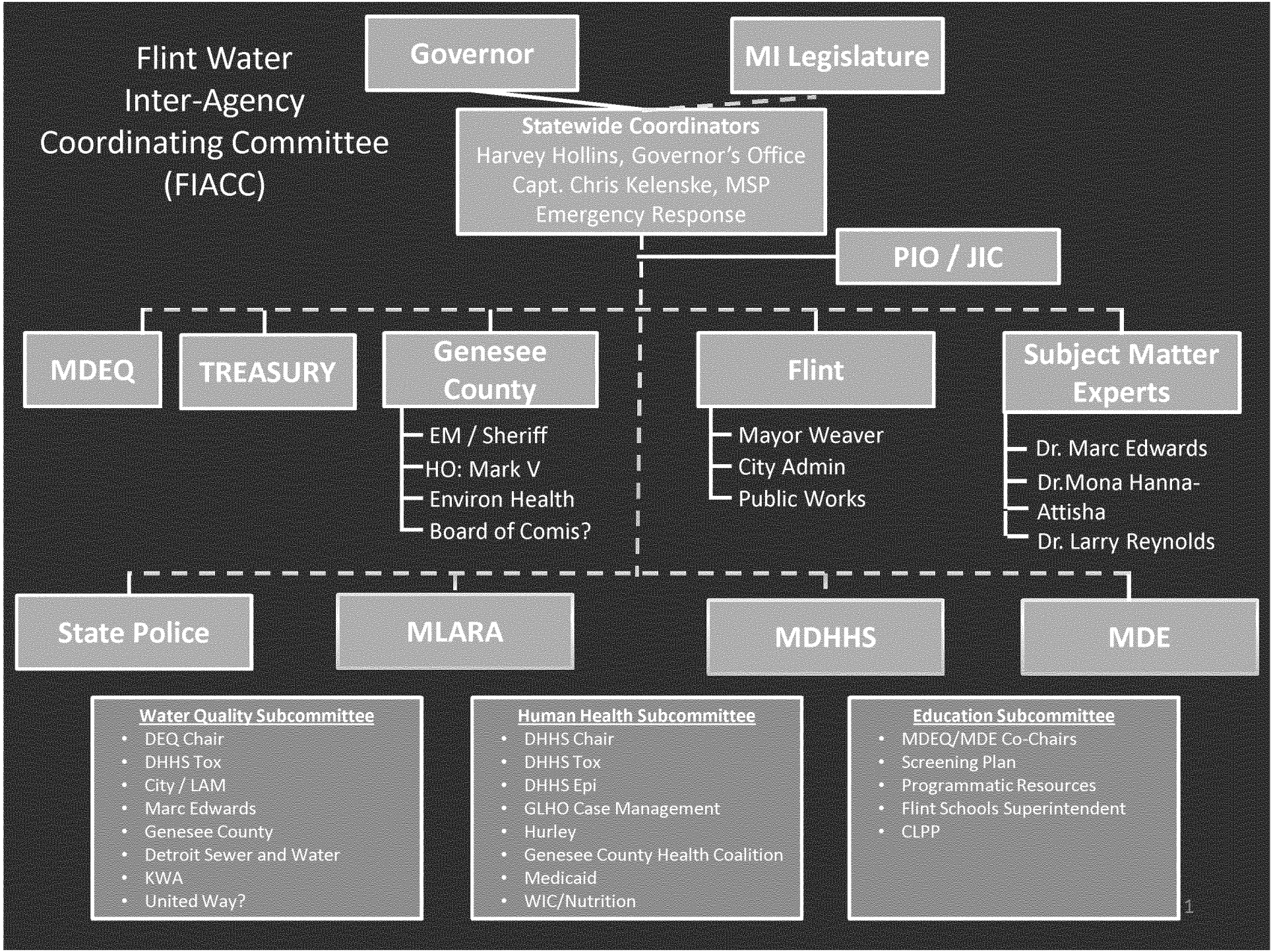
All parties will be required to be transparent about their ideas and findings, agreeing to accountability measures and reporting on them on a regular basis.

Please let me know your thoughts on this approach and also other agenda items you wish to see on January 7. If you agree, we would also invite the interim DEQ director, Keith Creagh, and the newly appointed spokesperson to meet you then.

Best,

Harvey Hollins, Director
Office of Urban Initiatives

State of Michigan
Governor Rick Snyder
Executive Office
☎:: (313) 456-4994 (Office)
✉:: 3044 W. Grand Blvd | Suite 14-650 | Detroit, MI 48202


Flint Water Inter-Agency Coordinating Committee (FIACC)
Governor
MI Legislature
Statewide Coordinators
Harvey Hollins, Governor's Office
Capt. Chris Kelenske, MSP Emergency Response
PIO / JIC
MDEQ
TREASURY
Genesee County
EM / Sheriff
HO: Mark V
Environ Health
Board of Comis?
Flint
Mayor Weaver
City Admin
Public Works
Subject Matter Experts
Dr. Marc Edwards
Dr.Mona Hanna-Attisha
Dr. Larry Reynolds
State Police
MLARA
MDHHS
MDE
Water Quality Subcommittee
DEQ Chair
DHHS Tox
City / LAM
Marc Edwards
Genesee County
Detroit Sewer and Water
KWA
United Way?
Human Health Subcommittee
DHHS Chair
DHHS Tox
DHHS Epi
GLHO Case Management
Hurley
Genesee County Health Coalition
Medicaid
WIC/Nutrition
Education Subcommittee
MDEQ/MDE Co-Chairs
Screening Plan
Programmatic Resources
Flint Schools Superintendent
CLPP

DRAFT: A Proposal to Create the Flint Water Inter-Agency Coordinating Committee (FWIACC)

Statement of Need

To better coordinate resources and personnel and react with urgency, Harvey Hollins and MSP Capt. Chris Kelenske have been tasked with creating FWIACC, subject to the approval and endorsement by Flint Mayor Karen Weaver.

We are also recommending, by executive order, that Gov. Rick Snyder authorizes this committee to help restore safe water in Flint and coordinate efforts addressing health/behavioral consequences from lead ingestion.

This inter-agency group will fully engage with all stakeholders committed to solving Flint water issues. Equal partners. Equal leadership. Equal responsibility. Equal chance to be part of the solution to an important and not fully understood problem.

FWIACC will be facilitated by Hollins and Kelenske, who represent statewide resources and constituencies, with support from senior members of the Governor's office.

An overview of FWIACC's goals:

- Create a routine information process between all parties.
- Pursue other avenues of funding, including federal grants and legislative appropriations.
- Implement without delay any appropriate mechanisms that are called for in the Emergency Management Act or the Stafford Disaster Relief and Emergency Assistance Act. These may include local emergency operations plans and guides.

Action Plan

Immediately, FWIACC will:

1. Establish an interagency workgroup described in the attached organizational chart. It will be comprised of DHHS, MDEQ, MSP, Treasury, Genesee County, City of Flint, MDE, LARA and external subject matter experts (SMEs). Other entities may be added as needed. Personnel must be goal-oriented, transparent with findings, and able to accomplish FWIACC Incident Action Plan items created by the state in a timely manner. The FWIACC plan would be created with city, county, state and federal needs in mind.

2. Assemble staff with competencies in disaster/emergency planning, operations and finance as outlined under the National Incident Management System (NIMS). Staff will be accountable to the FWIACC leadership to track resource requests and document progress on the FWIACC incident action plan.

3. Utilize the National Incident Management System and Unified/Incident Command as appropriate.

4. Establish routine communications protocols at the operational, executive and legislative levels as determined appropriate.

5. Establish interagency workgroup objectives using the following as a starting point.

Interagency Workgroup Objectives

1. Determine and convey acceptable standards for potable water.
    - Identify needed remediation.
    - Convey the remediation plan objectives to all stakeholders and interested parties.
    - Create logistics for distributing water and filters, particularly to homebound citizens.
    - Implement the plan.
2. Determine health impacts for the impacted population.
    - Identify treatment methods, nutrition education and protocols for monitoring, neurodevelopmental screening, access to DBP specialists and psychologists/psychiatrists, expanded county services, etc.
    - Convey the treatment plan objectives to interested parties.
    - Implement the plan.
3. Establish a public information protocol to effectively inform the community.
    - Identify existing public information outlets within the city, county and state, including schools, churches and other formal and informal distribution networks.
    - Establish a Joint Information Center.
    - Provide for emergency alerts and updates.
    - Determine the process for approving official information before it's disseminated.
    - Convey to interested parties.
4. Assess the status of the infrastructure and determine feasible actions to upgrade the water system.
    - Determine current state of the infrastructure.
    - Develop priorities, costs and potential funding sources for infrastructure upgrades as part of a long term recovery plan.
    - Seek partners to assist (NGOs, Foundations, Business, etc.).
    - Implement the plan.

From: Karen Weaver <weaverkaren@sbcglobal.net>
Sent: Sunday, January 03, 2016 7:10 PM
To: Hollins, Harvey (GOV)
Subject: Per our conversation

Harvey,

I received your correspondence, and in reviewing it, my concern is that we only have me, yourself, MSP Capt. Chris Kelenske In deciding this important decision about the water problems here in the city of Flint. I would like to have more professional input, such as the Task Force that has been put in place.

In looking at the written plan of action, it seems to be a positive step in the right direction. I also want to make sure the transparency of whatever we do is included.

How soon do you need a definite answer to the proposed plan?

Thanks

Karen
Sent from my iPhone

From: Hollins, Harvey (GOV)
Sent: Sunday, January 03, 2016 7:54 PM
To: Karen Weaver
Subject: RE: Per our conversation

Mayor,
I believe you are referring to the paragraph in the draft proposal that reads as follows: "To better coordinate resources and personnel and react with urgency, Harvey Hollins and MSP Capt. Chris Kelenske have been tasked with creating FWIACC, subject to the approval and endorsement by Flint Mayor Karen Weaver."

That paragraph simply asks if you believe that the creation of the FWIACC would be beneficial to the city. Actions addressing the water problems in Flint, through the FWIACC will be taken by various experts/professionals as outlined in the organizational chart.

Transparency is also a critical objective of the Governor, in saying that, we will need your advice on how to optimize that objective for the residents in the city.

Regarding a definite time for your response, why don't you take the next couple of days to really give the proposal a more thorough look over, and save your response for your meeting with the Governor.

If you have any other questions or concerns in the interim, please send them my was as this is still a work in progress.

Best,
Harvey

-----Original Message-----
From: Karen Weaver [mailto:weaverkaren@sbcglobal.net]
Sent: Sunday, January 03, 2016 7:10 PM
To: Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Subject: Per our conversation

Harvey,

I received your correspondence, and in reviewing it, my concern is that we only have me, yourself, MSP Capt. Chris Kelenske In deciding this important decision about the water problems here in the city of Flint. I would like to have more professional input, such as the Task Force that has been put in place.

In looking at the written plan of action, it seems to be a positive step in the right direction. I also want to make sure the transparency of whatever we do is included.

How soon do you need a definite answer to the proposed plan?

Thanks

Karen
Sent from my iPhone

From: Hollins, Harvey (GOV)
Sent: Wednesday, July 22, 2015 12:17 PM
To: Mark Murray
Subject: Water Filter

Mark,
Per our last conversation, I expressed that we were interested acquiring and distributing 1500 water filters to Flint residents to assist with the quality (perceived or real) of their drinking water until the KWA pipeline comes online.

A few weeks ago, you asked me to send you the product ID number so you could check with your suppliers regarding price. I apologize for taking long to send you product ID; a number of conversations needed to occur in Flint before we could proceed.

The product ID for a Brita Filter for kitchen faucets is:
Product ID 3176421
UPC 7-23987-0078

Thank you for taking the time to look into this.

Best,
Harvey Hollins III, Director
Governor's Office of Urban Initiatives

313.456.4994 (office)
PPI (Cell)

From: Hollins, Harvey (GOV)
Sent: Thursday, July 23, 2015 12:25 PM
To: Murray, Mark
Subject: RE: Water Filter

The city. It may be through one of the churches there, and we can get a specific address, but definitely in Flint.

-----Original Message-----
From: Murray, Mark [mailto:Mark.Murray@meijer.com]
Sent: Thursday, July 23, 2015 12:22 PM
To: Hollins, Harvey (GOV)
Subject: RE: Water Filter

If we can work this out, where would you want them delivered? Who would receive? State? City?

-----Original Message-----
From: Hollins, Harvey (GOV) [mailto:hollinsh@michigan.gov]
Sent: Thursday, July 23, 2015 12:20 PM
To: Murray, Mark
Subject: RE: Water Filter

Thank you.

-----Original Message-----
From: Murray, Mark [mailto:Mark.Murray@meijer.com]
Sent: Thursday, July 23, 2015 10:57 AM
To: Hollins, Harvey (GOV)
Cc: Steele, Cindee
Subject: RE: Water Filter

Will get back soon.

-----Original Message-----
From: Hollins, Harvey (GOV) [mailto:hollinsh@michigan.gov]
Sent: Wednesday, July 22, 2015 12:17 PM
To: Murray, Mark
Subject: Water Filter

Mark,
Per our last conversation, I expressed that we were interested acquiring and distributing 1500 water filters to Flint residents to assist with the quality (perceived or real) of their drinking water until the KWA pipeline comes online.

A few weeks ago, you asked me to send you the product ID number so you could check with your suppliers regarding price. I apologize for taking long to send you product ID; a number of conversations needed to occur in Flint before we could proceed.

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Product ID 3176421

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Thank you for taking the time to look into this.

Best,
Harvey Hollins III, Director
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PPI (Cell)

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From: Hollins, Harvey (GOV)
Sent: Friday, September 18, 2015 8:25 AM
To: Clayton, Stacie (GOV)
Subject: Tentative: Flint Water Conf Call

From: Hollins, Harvey (GOV)
Sent: Wednesday, October 07, 2015 5:15 PM
To: Thelen, Mary Beth (DEQ)
Cc: Clayton, Stacie (GOV); Shaler, Karen (DEQ); Wyant, Dan (DEQ)
Subject: Re: Flint City Council KWA Vote

I just sent it to Dan...do you still need me to copy Karen?

Best,
Harvey

On Oct 7, 2015, at 5:11 PM, Thelen, Mary Beth (DEQ) <THELENM2@michigan.gov> wrote:

> Harvey, it is my understanding that you are going to send Dan something yet soon. Please also copy Karen Shaler and me so that we can get it to the Governor's office with other items.
>
> Thank you.
>
> Mary Beth
>
> Mary Beth Thelen
> Management Assistant to Director Dan Wyant
> Department of Environmental Quality
> Constitution Hall, 6th Floor South
> Phone: 517-284-6712 or 284-6700 (new numbers)
> Fax: 517-241-7401
> Thelenm2@michigan.gov
>
> ---
>
> **From:** Clayton, Stacie (GOV)
> **Sent:** Wednesday, October 07, 2015 4:07 PM
> **To:** Thelen, Mary Beth (DEQ)
> **Cc:** Hollins, Harvey (GOV)
> **Subject:** FW: Flint City Council KWA Vote
>
> Mary Beth,
>
> Harvey is still waiting on hearing back from the city to get the original resolution but here are the mlive pieces that covered it from March 2013 until July 2013. The meeting when the vote was held was March 25, 2013. Here is what we have so far. I'll forward the actual resolution as soon as we receive it.
>
> ***Stacie***
>
> March 25th 2013 **Flint council supports buying water from Lake Huron through KWA**
> http://www.mlive.com/news/flint/index.ssf/2013/03/flint_city_council_again_delay.html
> The Flint City Council voted 7-1 to get 16 million gallons per day from the Karegnondi Water Authority.
>
> 7th Ward councilperson Dale Weighill was absent
> 3rd Ward councilperson Bryant Nolden opposed

The rest were in favor.

March 25th, 2013 **Flint City Council approves resolution to buy water from Karegnondi, state approval still needed**

http://www.mlive.com/news/flint/index.ssf/2013/03/flint_city_council_approves_re.html

Under the proposal, Flint would get 16 million gallons per day of raw water from Lake Huron, pipe it to Flint for treatment and then sell it to customers throughout the City. Another 2 million gallons per day would come from the Flint River and will be treated in Flint. DEQ told the city it needed to get 18 million gallons per day or there would have to be additional work done at Flint's water plant. Flint's water plant and the Flint River is currently the backup for Flint and Genesee County, however, the plant only operates four times per year.

April 12th **State gives Flint OK to join Karegnondi Water Authority project, but Detroit gets to make final offer**

http://www.mlive.com/news/flint/index.ssf/2013/04/state_gives_flint_ok_t.html

The city of Flint has the state's blessing to join in construction of the planned Karegnondi Water Authority**pipeline project** once it reviews a final offer from the city of Detroit on Monday, April 15.

April 19th **Governor steps into water war; set to meet with Genesee, Flint, Detroit today**

http://www.mlive.com/news/flint/index.ssf/2013/04/governor_steps_into_water_war.html#incart_river_default

The meeting comes in the same week that the Flint and Genesee County rejected a final offer to continue buying water from Detroit and two days after Detroit gave Flint a notice of termination of its 1965 water contract.

April 19th **Detroit gives notice: It's terminating water contract covering Flint, Genesee County in one year**

http://www.mlive.com/news/flint/index.ssf/2013/04/detroit_gives_notice_its_termi.html

The city of Detroit has given notice that it's terminating a nearly 50-year-old contract for selling water to Flint and the county next year.

July 23rd **Flint River now an option for drinking water following Detroit's termination of contract**

http://www.mlive.com/news/flint/index.ssf/2013/07/city_readying_water_plant_to_t.html

The Flint River was not a viable option to provide drinking water to city residents when the water relationship between Flint and Detroit was stable. But river water might be used temporarily as the city's water supply now that Flint signed an agreement with the Karegnondi Water Authority and will get up to 18 million gallons per day of raw water in 2016 from Lake Huron. The Flint River hadn't been an option, city officials previously said, because upgrades to Flint's water plant would be too expensive, the river didn't provide enough capacity to serve Flint residents' water needs and the Michigan Department of Environmental Quality would not allow it.

From: Hollins, Harvey (GOV)
Sent: Thursday, October 08, 2015 4:57 PM
To: Lyon, Nick (DHHS)
Cc: Lasher, Geralyn (DHHS); Hanley, Farah (DHHS); Becker, Timothy (DHHS); Grijalva, Nancy (DHHS); Roberts, John (DTMB); Wyant, Dan (DEQ); Duncan, Nancy (DTMB); Harkins, Chris (DTMB); Pallone, Maggie (DEQ); Hertel, Elizabeth (DHHS); Ruest, Karla (DHHS)
Subject: Re: Update from Nick's calls

Thanks for the FYI Nick. Santana is looking for about 400 filters to get to Hispanic families from a distribution spot taking address information only for tracking purposes without having to disclose names. The solution for that population, who might be concerned about ICE, is to have them obtain the filters from alternative donors other than the state. I will follow up with Santana.

>

> On Oct 8, 2015, at 4:30 PM, Lyon, Nick (DHHS) <LyonN2@michigan.gov> wrote:
>
> Just a further follow up from this morning.
>
> Rep. Verhuelen is concerned about this being precedent setting and will we be on the hook if another major municipal water system fails. We talked quite a bit about water quality and corrosion and I hooked him up to Dan for further details.
>
> Rep. Santana thought this was the right thing to do and was quite supportive. He did state that he had heard that Hispanic people in Flint were not aware or taking advantage of the fact that they could get filters. I told him we would look at providing info in Spanish. He also urged that we work with the agencies that support Spanish speaking residents. I told him I would follow up with Harvey to see what he is doing in that regard. Harvey - This is FYI for you. I will let him know that we were working with the Hispanic Center, who picked up filters from GCCARD and will help with translation on the application.
>
> Shirkey sent me a text thanking him for the message.
>
>
>
> Nick has put in calls to our subcommittee chairs and wanted to pass along the feedback he got.
>
> All agree from the health side that the DHHS action is the right way to move forward. However they had some negative feedback on the $6 million.
>
> --Representatives MacGregor and Poleski both feel this should be a loan to the City of Flint instead of direct payment of $6 million
>
> --Senator Marleau complained about the lack of legislative input before the decision was made to switch back to Flint water from Detroit in the first place.
>
> He left messages for Verheulen, Santana, Shirkey and Hertel.

>
>
>
> Sent from my iPad

From: Hollins, Harvey (GOV)
Sent: Tuesday, October 13, 2015 3:45 PM
To: Muchmore, Dennis (GOV)
Subject: RE: What's the latest on Flint?

Not much more than what's in the news. I made a couple of
I made a couple of [redacted]

From: Hollins, Harvey (GOV)
Sent: Tuesday, October 13, 2015 3:44 PM
To: Muchmore, Dennis (GOV) <muchmored@michigan.gov>
Subject: RE: What's the latest on Flint?

Not much more than what's in the news. I made a couple of

- City Council voted to approve their $2 million to use GLWA
- People are still upset, believing that DEQ is covering up their mistake.
- Most elected officials are pointing fingers at the state.
- Bottled water delivery has slowed a tad.
- Various groups are still delivering water filters, a big filter distribution occurred over the weekend.
- Mayor Walling and his challenger Weaver are debating tonight.

From: Muchmore, Dennis (GOV)
Sent: Tuesday, October 13, 2015 8:41 AM
To: Hollins, Harvey (GOV) <hollinsh@michigan.gov>
Subject: What's the latest on Flint?

From: Hollins, Harvey (GOV)
Sent: Tuesday, October 20, 2015 7:26 PM
To: Lyon, Nick (DHHS)
Subject: Testing

Nick,
I understand that you and Rep. Neeley have talk re testing all Flint children, is it possible for you or one of your staff to give me an update re the status of that effort?

Best,
Harvey

From: Hollins, Harvey (GOV)
Sent: Wednesday, October 21, 2015 2:09 PM
To: Murray, David (GOV); Clayton, Stacie (GOV)
Subject: RE: Flint task force notifications

Calls made.

From: Murray, David (GOV)
Sent: Wednesday, October 21, 2015 1:17 PM
To: Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Clayton, Stacie (GOV) <claytons3@michigan.gov>
Subject: Flint task force notifications

Hello Harvey,

Sara asked that I send this to you for notifications. Would you be able to reach out to the Mott Foundation, pastors group and Mayor Walling's Office? The plan is to issue between 2 and 2:30, with potential notifications around 2 p.m.

Thank you very much!

Dave

Gov. Rick Snyder announces Flint Water Task Force to review state, federal and municipal actions, offer recommendations

Experts in public health, water management, environmental protection to focus on steps to protect residents

LANSING, Mich. – Gov. Rick Snyder today announced the creation of an independent advisory task force charged with reviewing actions regarding water use and testing in Flint and offer recommendations for future guidelines to protect the health and safety of all state residents.

Task force members include experts in public health and medicine, water management, and environmental protection from both sides of the aisle, and will be co-chaired by Ken Sikkema of Public Sector Consultants and Chris Kolb, of the Michigan Environmental Council. Also serving will be Dr. Matthew Davis of the University of Michigan Health System, Eric Rothstein, of the Galardi Rothstein Group and Dr. Lawrence Reynolds of Mott Children's Health Center in Flint.

"Transitioning back to the Detroit Water and Sewerage Department-Great Lakes Water Authority is a good first step to protecting public health in Flint, but it's not the last step," Snyder said. "Bringing in outside experts to evaluate our actions and help monitor and advise on potential changes to law, procedures and practices will be key to continuing work on the comprehensive action plan and ensuring safe drinking water for all the residents in Flint and all of Michigan."

Snyder said the administration will fully cooperate with task force members, saying he wants an unbiased report focusing on steps taken in the past and recommendations that could improve practices to ensure all residents have access to safe, clean water.

Ken Sikkema is a senior policy fellow at Public Sector Consultants, where he specializes in public finance, environment, and energy policy. Prior to joining the firm, Sikkema served in both the Michigan House and

Senate, culminating with four years as Senate majority leader. He has also served as both an adjunct and visiting professor at Grand Valley State University.

Chris Kolb is president of the Michigan Environmental Council, a statewide coalition of 70 environmental, public health and faith-based nonprofit groups. Before joining the MEC, Kolb represented Ann Arbor in the state House for six years and served six years on the Ann Arbor City Council. He has been president of the MEC for six years.

Matthew Davis, M.D., M.A.P.P., is professor of pediatrics and internal medicine at the University of Michigan Health System and professor of public policy at the Gerald R. Ford School at the University of Michigan, having joined the faculty in 2000. Davis also is a professor of health management and policy at the School of Public Health. He previously served as the chief medical executive of the Michigan Department of Community Health/Department of Health and Human Services.

Eric Rothstein is a national water issues consultant and principal at the Galardi Rothstein Group. He served as an independent advisor on the creation of the Great Lakes Water Authority. Rothstein also has served as Jefferson County, Alabama's rate consultant and municipal adviser for litigation related to the county's bankruptcy and issuance of $1.7 billion in sewer warrants and led strategic financial planning for the City of Atlanta's Department of Watershed Management. He has more than 30 years of experience in water, wastewater and stormwater utility finance and rate-making assessments.

Lawrence Reynolds, M.D., is a pediatrician in Flint who serves as president of the Mott Children's Health Center. He received his medical degree from Howard University College of Medicine and has been in practice for 36 years. He has served as president of the Genesee County Medical Society and the Michigan Chapter of the American Academy of Pediatrics. He has been honored for his humanitarian and advocacy efforts on behalf of children from the Community Foundation of Greater Flint.

Snyder has said reconnecting with the authority is a critical step to resolving water quality issues and addressing related health concerns. It will not immediately resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control.

To best protect public health, state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure. The Michigan Departments of Environmental Quality and Health and Human Services are continuing to provide free water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

####

Dave Murray
Deputy Press Secretary | Executive Office of Governor Rick Snyder
MurrayD1@michigan.gov
517-335-6397, office
PPI mobile
Twitter:@michigandmurray

Changes to Flint Water System Made By Local Leaders, Not Emergency Managers
Author: Darnell Earley, ICMA-CM, MPA

It is critically important that the record be set straight about the decision-making and approval processes that led to Flint joining the Karegnondi Water Authority (KWA) with the use of Flint River water as the interim water supply. The fact is, that the river has served and been used as the back-up supply for decades, and this was the rationale given to me by staff and Mayor Walling, who also serves as chairperson of the KWA board. Contrary to reports in the media and rhetoric being espoused by individuals, the decision was made at the local level, by local civic leaders.

The decision to separate from Detroit Water and Sewerage Department and go with the KWA, which included the decision to pump Flint River water in the interim, were both a part of a long-term plan that was approved by Flint's Mayor, and confirmed by a City Council vote of 7-1 on March 25, 2013. This plan was presented to me when I was appointed as Flint Emergency Manager in October 2013 - a full seven months after City Council's affirmative vote.

Genesee County Drain Commissioner Jeff Wright also made the affirmative vote by the City Council a necessary condition of joining the KWA, and applauded the decision in a March 26, 2013 news release, saying, "…I have said from the beginning that this decision must be made by Flint's City Council and Mayor…I am glad that the residents of Flint were able to have their voices heard via their elected officials."

The Mayor's approval of the plan, and the subsequent near unanimous vote by City Council were in no way coerced, forced or demanded by the State, nor any Emergency Manager. Council's affirmative vote was supported and officially signed into EM Executive Order by then Emergency Manager Edward Kurtz on March 29, 2013. A subsequent order Kurtz signed on June 26, 2013, speaks specifically to the, "… upgrading of the Flint Water Plant to ready it to treat water from the Flint River to serve as the primary drinking water source for approximately two years and then converting to KWA delivered lake water."

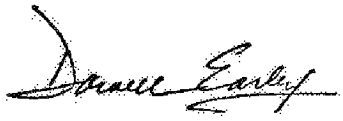
When I began my term as Emergency Manager, it fell to me to oversee the implementation of the previously accepted and approved plans, as the DWSD terminated the contract with Flint in April 2014. It did not fall to me to question, second guess or to invalidate the actions that were taken prior to my appointment.

At the time the decision was made there was no way to predict such an unfortunate outcome. I would also offer that had local leaders known then what they know now, parts of their decision may have been entirely different. What the City of Flint and the State of Michigan are now dealing with is the management of an unintended consequence resulting in a negative outcome from an otherwise sound public policy decision. There is no "blame" to affix on any Emergency Manager for that.

As the solutions are put into place to address the serious concerns at hand, I believe that everyone's attention should now turn toward another serious concern -- what is being done in the long-term to replace the aged and crumbling water distribution systems that exists throughout Flint and Genesee County, which was a major contributing factor to this serious issue in the first place.

I am a strong believer that the truth supported by fact, speaks for itself. This was a local decision that was made by local civic leaders. Anyone who says otherwise is being disingenuous for whatever reason.

Sincerely,



Darnell Earley, ICMA-CM, MPA

From: Hollins, Harvey (GOV)
Sent: Saturday, October 31, 2015 7:08 PM
To: Michelle Zdrodowski
Subject: Re: Flint EM Order On Water Plant Upgrades

Thank you. I know there were discussions with city officials before Kurtz signed that order. Does he have any information on that?

Best,
Harvey

On Oct 29, 2015, at 3:53 PM, Michelle Zdrodowski <michelle.zdrodowski@detroitk12.org> wrote:

> Harvey,
>
> Mr. Earley asked that I send you the attached executive order signed by former Flint EM Edward Kurtz, which clearly indicates that a decision on the use of Flint River water had been made by June of 2013.
>
> This was not included in the packet of documents that had previously been provided by Treasury.
>
> Any questions, please let him know.
>
> Thanks,
>
> Z
>
> **Michelle A. Zdrodowski**
>
> Executive Director of Communications
>
> Detroit Public Schools
>
> 3011 W. Grand Boulevard, 14th Floor

Detroit, MI 48202

313.873.3238, office

PPI mobile

<Water Plant EO-Kurtz Order on Water Plant.pdf>

From: Hollins, Harvey (GOV)
Sent: Monday, December 28, 2015 3:52 PM
To: Baird, Richard (GOV); Wyant, Dan (DEQ); Lyon, Nick (DHHS); Holland, Meegan (GOV); Agen, Jarrod (GOV)
Cc: Krisztian, George (DEQ); Brownfield, Michael (GOV); Thelen, Mary Beth (DEQ); Khouri, Nick (TREASURY); Kriste Kibbey Etue (EtueK@michigan.gov); Whiston, Brian (MDE)
Subject: RE: Comments on SoS
Attachments: 20151228_SoS Draft DEQ.docx

Dan,
Thanks for putting this draft together. I agree with Rich's edits, and the attached document has my recommendations. Also, I suggest we add the following departments to comment on this document as the issue in Flint now goes beyond water quality: Treasury, MSP and Dept. of Education. I've taken the liberty to solicit comments from the added directors through this reply.

Best,
Harvey

-----Original Message-----
From: Baird, Richard (GOV)
Sent: Monday, December 28, 2015 12:36 PM
To: Wyant, Dan (DEQ) <WyantD@michigan.gov>; Lyon, Nick (DHHS) <LyonN2@michigan.gov>; Hollins, Harvey (GOV) <hollinsh@michigan.gov>; Holland, Meegan (GOV) <HollandM2@michigan.gov>; Agen, Jarrod (GOV) <AgenJ@michigan.gov>
Cc: Krisztian, George (DEQ) <krisztiang@michigan.gov>; Brownfield, Michael (GOV) <BrownfieldM2@michigan.gov>; Thelen, Mary Beth (DEQ) <THELENM2@michigan.gov>
Subject: Comments on SoS

Dan:

I added Jarrod and Meegan since we were engaged with Harvey and with Governor Thursday morning last week. I may be advocating a higher degree of "aggression" than others deem proper and I will defer to Jarrod after having had my say.

My key points on the attached (with suggested language and which have been highlighted) are:

1). Apologize. It happened on our watch and it shouldn't have happened, no matter what the law says.

2). Invite those who were the biggest burrs under the saddle to come work with us. In fact, we should be articulating how they have already been invited to our labs to collaborate on the findings and conclusions.

3). Start framing the infrastructure problem. We have huge problems throughout the state with aged piping and plumbing. Ignoring it will be at the peril of future generations. We should put a number out there on what it is going to take to fix it or conclude it is safe for generations to come.

Thanks for taking the lead.

Regards,

Rich

I have put Comments/Questions/Suggestions in [ ]...

Draft –Not for Distribution 12/28/15

TAKING ACTION ON FLINT WATER

[I would start off with an apology..."Among the things our citizens have a right to expect from their government is clean, safe water. In Flint's case, government failed them on many levels. As the Chief Executive of the state, I apologize for these failures and am absolutely committed to making things right. I would ask that all of our leaders at the local, state and federal level, work with me to solve the immediate problems and put in place long term measures to monitor and address the consequences from exposure. I also want to thank Dr. Mona Attisha Hannah and Dr. Marc Edwards for their diligence in making sure I understood the severity of the problem before us.]

• Every municipality in Michigan deserves safe drinking water.

•

• As Governor, I am committed to addressing the issue.

• Lead exposure is a serious issue.

• I appreciate those who have brought attention to this issue.

• We are committed to safe drinking water and to working in partnership with the city of Flint, Genesee County, and the U.S. EPA.

• We must learn from what happened in Flint.

• In October, I announced a ten point action plan to address lead exposure in Flint.

• Today, I am outlining additional actions to make sure the public health is protected in Flint and elsewhere in the State of Michigan.

• I am asking for changes in order to see that the Michigan Drinking Water Program becomes a national leader in public health protection.

On October 2, 2015 the Flint Water Action Plan was announced. With the help of the Michigan Legislature and the Mott Foundation, we have taken significant action to address the issue. Actions include:

• Switching back to the Great Lakes Water Authority/DWSD water supply (October 16, 2015)

Deleted: Flint

Deleted: .

Comment [HH1]: The issue in Flint is the failure of Government to ensure safe drinking water. The aging infrastructure exacerbated that failure, and serves as the canary in the coal mine re the need for the legislature to address water and sewage infrastructure statewide.

Deleted: The issues around Flint's drinking water represent the challenges of aging infrastructure

Deleted: .

Comment [HH2]: It is important to note that this switch is temporary until KWA is online.

• Provided water filters to residents of Flint. (DHHS to provide update) [Distribution has been a problem--are we addressing it?]

• Testing all Flint schools, preschools and day cares. Summary of results to date.(George to provide)

• Expanded health exposure testing of individual residences. Summary of results to date. (Nick to provide)

• Offer water testing at no cost to Flint residents to assure safe water. Summary of results to date. (George to provide)

• Expedite optimizing corrosion control in the Flint drinking water system. Summary of date completed. (George to summarize)

• Utilize the "Safe Drinking Water Technical Advisory Committee." To ensure the best technology, practices and science are being utilized; national experts have been assembled to provide technical advice. [Will you include Dr. Mona? Larry Reynolds? Mark Edwards?]

• Accelerate water system improvement to address replacement of lead service lines. We are working with the city of Flint and our Congressional delegation on a lead service line replacement plan.

• Working to expedite the completion of the Karegnondi Water Authority. And to provide the expertise to upgrade the water treatment facility in Flint to ensure that the drinking water from KWA is at least the same quality as the water from GLWA/DWSD

• Expand a lead education program.
(DHHS to provide update)

• Dr. Eden Wells was named as the Flint Drinking Water Public Health Advisor to ensure safe drinking water.

[Flint's Head of Mott Children's Hospital, Dr. Larry Reynolds was named to the Flint After Action Task Force].

In addition to the announced Flint Action plan, I am calling for additional actions to be taken.

• Recently appointed Harvey Hollins to serve as my administration's point person to coordinate ongoing activities and partner with the city of Flint. [Harvey will be supported by senior members of my executive team to remove impediments and ensure efficient coordination at all levels.]

• Asking the DEQ to develop a statewide drinking water school testing program.

• Asking for changes in the Michigan Drinking Water Program in order for it to be recognized as a national leader in public health including:
o New administrative leadership.
o Creation of corrosion control expertise.
o Expanded statewide testing.
o Improved testing protocols.

• The creation of a health fund for children affected by lead exposure.

• Calling on the Legislature to work with my administration and stakeholders to develop a Strategic Water Fund to address Michigan's long term safe water and water quality infrastructure needs. [This can't get lost. Need more to educate people that our infrastructure is old, that the average city of 50,000 or more likely requires $$$ in remediation. At some point the anti corrosive treatment is not likely to be sufficient.]

• I will look to implement additional recommendations of the Flint Water Advisory Task Force, and I appreciate their leadership on this issue. [I would say more here—the TF was bi-partisan, independent, and staffed by incredible talent. It has done an incredible job].

• Ensure transparency for the public regarding actions taken in Flint to resolve this crisis

Sent from my iPad

On Dec 28, 2015, at 10:14 AM, Wyant, Dan (DEQ) <WyantD@michigan.gov> wrote:

Please edit, correct, and expand summaries as indicated in the attached document called Taking Action on Flint Water Draft 12-28-15. This document is intended to serve as a basis for the Governor to address the Flint drinking water issue in the State of the State and budget announcement.

I have also attached a pdf of a document called Drinking Water Program Budget Request for your information.

Please send your response back to me and also copy all by Monday, January 4, 2016, Close of Business.

Thank you.

Dan Wyant
Director
517-284-6700
<TAKING ACTION ON FLINT WATER DRAFT 12-28-15.docx>

<Drinking Water Program Budget Request.pdf>